
GoodData Foreign Data Wrapper

Release 0.8.0

GoodData Corporation

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GoodData Foreign Data Wrapper delivers PostgreSQL foreign data wrapper extension built on top of [multicorn](#). The extension makes GoodData.CN insights, computations and ad-hoc report data available in PostgreSQL as tables. It can be selected like any other table using the SQL language.

INSTALLATION

You can build and run it as a service in your Docker environment (recommended) or install the package on your system directly using pip.

1.1 Requirements

- Python 3.7 or newer
- GoodData.CN installation; either running on your cloud infrastructure or the free Community Edition running on your workstation

1.2 Install Using Docker (Recommended)

The Python SDK comes with a Dockerfile which, when started, will run PostgreSQL 12 with multicorn and gooddata-fdw pre-installed. For an even better user experience there is a `docker-compose.yaml` file which contains both the `gooddata-fdw` and `gooddata-cn-ce` services.

1.2.1 Build and Run the Service

Execute the following command in your repository root folder:

```
docker-compose up -d
```

`gooddata-fdw` image is built from the Dockerfile and both services are started in background.

Note: Services in `docker-compose.yaml` contain a setup of various environment variables including `POSTGRES_PASSWORD`. Feel free to set the variables in your environment, before you execute the above command. Default value for `POSTGRES_PASSWORD` is `gooddata123`.

1.2.2 Maintenance

To rebuild the Foreign Data Wrapper image execute the following command:

```
docker-compose build
```

If you would like to purge a container completely (including the volume) and start from scratch, run the following helper scripts:

```
./rebuild.sh gooddata-cn-ce  
./rebuild.sh gooddata-fdw
```

1.2.3 Adding Your Own Data

Before you start playing with the Foreign Data Wrapper, you will need a content in the `gooddata-cn-ce`.

`docker-compose.yaml` launches the *upload-layout* service. Its purpose is to bootstrap the demo and testing content into `gooddata-cn-ce`. You can use this as a starting point.

But the `gooddata-cn-ce` service is not limited only to the demo content. You can fill the `gooddata-cn-ce` with your own content (LDM, metrics, insights). Follow our [Getting Started documentation](#) if you need help with that.

1.2.4 Connect with existing GoodData.CN installation

This use case is for users running a GoodData.CN image who want to connect it to the GoodData Foreign Data Wrapper. For connecting `gooddata-fdw` with GoodData.CN image both images have to run on the same network. You can create a new network and run both images there or use the default bridge network.

Note: Default network bridge does not support accessing services by their name. You need to use an IP address in the host when defining the GoodData.CN server. The IP address can be found using command `docker inspect <GoodData.CN container name>`.

1. Build the `gooddata-fdw` service from `docker-compose.yaml`:

```
docker-compose build gooddata-fdw
```

2. Create a new network:

```
docker network create --driver bridge gd-cn-net
```

3. Run GoodData.CN on created network and name it `gooddata-cn-ce`:

```
docker run --rm --name gooddata-cn-ce -p 3000:3000 -p 5432:5432 -v /data \  
--network gd-cn-net \  
-e LICENSE_AND_PRIVACY_POLICY_ACCEPTED=YES \  
-e APP_LOGLEVEL=INFO \  
gooddata/gooddata-cn-ce:latest
```

4. Run the `gooddata-fdw` service on created network and name it `postgres-fdw`:


```
docker run --rm --name postgres-fdw -p 2543:5432 --network gd-cn-net \
-e POSTGRES_DB=gooddata -e POSTGRES_USER=gooddata -e POSTGRES_PASSWORD=gooddata123 \
gooddata-python-sdk_gooddata-fdw:latest \
postgres -c "shared_preload_libraries=foreign_table_exposer" -c "log_statement=all" \
→ -c "client_min_messages=DEBUG1" -c "log_min_messages=DEBUG1"
```

1.3 Install Using Pip

Run the following command to install the gooddata-fdw package on your system:

```
pip install gooddata-fdw
```

Warning: For this use case, you also need to install and run PostgreSQL together with multicorn.

GET STARTED WITH POSTGRESQL

2.1 Connect to PostgreSQL

After the `gooddata-fdw` container starts, you can connect to the running PostgreSQL:

- From console using `psql --host localhost --port 2543 --user gooddata gooddata`
You will be asked to enter the password that you have specified when starting the script.
- From any other client using JDBC string: `jdbc:postgresql://localhost:2543/gooddata`
You will be asked to enter username (`gooddata`) and password.

Once connected you will be able to work with the GoodData.CN Foreign Data Wrapper. At first, you need to define your GoodData.CN server in PostgreSQL:

```
CREATE SERVER multicorn_gooddata FOREIGN DATA WRAPPER multicorn
OPTIONS (
  wrapper 'gooddata_fdw.GoodDataForeignDataWrapper',
  host 'https://gooddata-cn-ce:3000', -- host equal to name of container with GoodData.
  ↪CN.CE
  token 'YWRtaW46Ym9vdHN0cmFwOmFkbWluMTIz' -- default gooddata-cn-ce token, documented ↪
  ↪in public DOC as well
);
```

As of now the GoodData.CN community edition (single container deployment) supports only `localhost` as the target host. If you spin-up GoodData.CN and FDW using `docker-compose`, GoodData.CN host name is the service name in the `docker-compose`, e.g. `gooddata-cn-ce`. To enable such setup, we provide an option `header_host`:

```
CREATE SERVER multicorn_gooddata FOREIGN DATA WRAPPER multicorn
OPTIONS (
  wrapper 'gooddata_fdw.GoodDataForeignDataWrapper',
  host 'http://gooddata-cn-ce:3000', -- host equal to name of container with GoodData.
  ↪CN.CE
  token 'YWRtaW46Ym9vdHN0cmFwOmFkbWluMTIz', -- default gooddata-cn-ce token, ↪
  ↪documented in public DOC as well
  headers_host 'localhost'
);
```

Typically, you have to do this once per GoodData.CN installation. You may add as many servers as you need.

IMPORTANT: Do not forget to specify host including the schema (`http` or `https`).

FOREIGN TABLES

3.1 Import GoodData Objects into PostgreSQL Schema

You can import insights created in GoodData.CN Analytical Designer as PostgreSQL foreign tables. You can import insights from as many workspaces and/or GoodData.CN instances (servers) as you want.

You can also import your entire semantic model including MAQL metrics into a special *compute pseudo-table*. Doing SELECTs from this table will trigger computation of analytics on your GoodData.CN server based on the columns that you have specified on the SELECT.

Note: The *compute* is called pseudo-table for a reason. It does not adhere to the relational model. The columns that you SELECT map to facts, metrics and labels in your semantic model. Computing results for the select will automatically aggregate results on the columns that are mapped to labels in your semantic model. In other words cardinality of the *compute* table changes based on the columns that you SELECT.

For your convenience we prepared a stored procedure, which:

- (re)creates target schema
- imports currently existing insights and/or entire semantic model

You can re-execute the procedure to update foreign tables.

```
-- This maps all insights stored in GoodData.CN workspace `workspace_id` into the
-- PostgreSQL schema named `workspace_id`
CALL import_gooddata('workspace_id', 'insights');

-- By utilizing the third parameter you can override the name of the target PostgreSQL
-- schema
CALL import_gooddata('workspace_id', 'insights', 'custom_schema');

-- This imports the semantic model into the 'compute' pseudo-table.
CALL import_gooddata('workspace_id', 'compute');

-- This imports both insights and compute
CALL import_gooddata('workspace_id', 'all');

-- This is how you can extend max size of numeric columns in foreign tables (basically
-- to support larger numbers)
CALL import_gooddata(workspace := 'goodsales', object_type := 'all', numeric_max_size :=
-- 24);
```

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```
-- Specify custom foreign server name - this enables you importing from multiple servers.
↳ into the same FDW instance
CALL import_gooddata(workspace := 'goodsales', object_type := 'all', foreign_server :=
↳ 'multicorn_gooddata_stg');
```

Default max numeric size is 18, default digits after decimal point is 2 unless metric format defines more.

You will get a couple of 'NOTICE' messages as the import progresses. You can then check the imported tables by executing:

```
SELECT * FROM information_schema.foreign_tables WHERE foreign_table_schema = 'workspace_
↳ id';
```

IMPORTANT: Your semantic model may consist of multiple isolated segments that have no relationship between them. Attempting to compute results from multiple isolated segments will result in errors.

Warning: Imported tables reflect state of the workspace and insights in time of import. Any later change to the workspace can result in failing SQL queries against imported tables. The state can be fixed by re-importing the workspace insights and/or compute.

3.2 Create Foreign Tables

You can manually create your own foreign tables and map their columns to GoodData.CN semantic model. This is similar to creating normal tables except you have to provide table and column OPTIONS to establish the correct mapping. For instance:

```
CREATE FOREIGN TABLE custom_report (
  some_label VARCHAR OPTIONS (id 'label/some_label'),
  some_fact_sum NUMERIC(15,5) OPTIONS (id 'fact/some_fact', agg 'sum'),
  some_fact_avg NUMERIC(15,5) OPTIONS (id 'fact/some_fact', agg 'avg'),
  some_metric NUMERIC(15,5) OPTIONS (id 'metric/some_metric')
)
SERVER multicorn_gooddata
OPTIONS ( workspace 'workspace_id');
```

To explain:

- OPTIONS on foreign table must contain identifier of workspace to map to
- OPTIONS on each column must contain identifier of semantic model entity. The id is string but consisting of two parts <entity_type>/<entity_id>. Where entity_type is either label, fact or metric.

For columns that map to facts in your semantic model, you can also specify what aggregation function should be used when aggregating the fact values for the labels in your custom report table. You can use the following aggregation functions:

- sum
- avg
- min
- max

- median

The `agg` key is optional. If you do not specify it, then default `sum` aggregation will be used. The value of `agg` is case insensitive.

Note: If you do not specify the required options, the `CREATE` command will fail. If you specify wrong entity IDs, the failures will happen at `SELECT` time.

3.3 Push Down of Filters

When querying foreign tables, you can add `WHERE` clause filtering the result. For performance optimization, it makes sense to push such filters down to the GoodData.CN, so not all data has to be collected.

We are able to push only some filters down to GoodData.CN:

- Simple attribute(label) filters
 - Example: `WHERE region IN ('East', 'West')`
- Simple date filters
 - Only DAY granularity is supported
 - (NOT) IN operator is not supported
 - Example: `WHERE my_date BETWEEN '2021-01-01' AND '2021-02-01'`

If you use an `OR` between conditions, it is not pushed down. Push down is possible in case of custom tables and `compute` table, not in case of foreign tables imported from `insights`.

3.4 Known Limitations

It is not possible to reference a column in `WHERE` clause, which is not used in `SELECT` section. Example:

```
SELECT label1, metric FROM insight WHERE label2 = 'a';
SELECT label1, metric FROM compute WHERE label2 = 'a';
```

While it is obvious in case of an `insight` (it does not contain the column at all), in case of `compute` we would like to support it, but we are not allowed due to lack of functionality in Multicorn - the filter is always applied on final result set and if it does not contain the column, it does not work.

gooddata_fdw

gooddata_sdk

The *gooddata-sdk* package aims to provide clean and convenient Python APIs to interact with GoodData.CN.

4.1 gooddata_fdw

Modules

gooddata_fdw.column_utils

gooddata_fdw.column_validation

gooddata_fdw.environment

This file exists because multicorn is not available as proper stand-alone python package that one could install and then use the different data types during testing.

gooddata_fdw.executor

gooddata_fdw.fdw

gooddata_fdw.filter

gooddata_fdw.import_workspace

gooddata_fdw.naming

gooddata_fdw.options

gooddata_fdw.pg_logging

gooddata_fdw.result_reader

4.1.1 gooddata_fdw.column_utils

Functions

<code>column_data_type_for(attribute)</code>	Determine what postgres type should be used for <i>attribute</i> .
<code>table_col_as_computable(col)</code>	

`gooddata_fdw.column_utils.column_data_type_for`

`gooddata_fdw.column_utils.column_data_type_for(attribute: Optional[gooddata_sdk.catalog.workspace.entity_model.content_objects.data_type.ContentObjectData] → str`
Determine what postgres type should be used for *attribute*. :param attribute: catalog attribute instance

`gooddata_fdw.column_utils.table_col_as_computable`

`gooddata_fdw.column_utils.table_col_as_computable(col: gooddata_fdw.environment.ColumnDefinitionStub) → Union[gooddata_sdk.compute.model.attribute.Attribute, gooddata_sdk.compute.model.metric.Metric]`

4.1.2 gooddata_fdw.column_validation

Functions

<code>validate_columns_in_table_def(table_columns, ...)</code>
--

`gooddata_fdw.column_validation.validate_columns_in_table_def`

`gooddata_fdw.column_validation.validate_columns_in_table_def(table_columns: dict[str, ColumnDefinition], query_columns: list[str]) → None`

Classes

<code>ColumnValidator()</code>
<code>IdOptionValidator(mandatory)</code>
<code>LocalIdOptionValidator()</code>

gooddata_fdw.column_validation.ColumnValidator**class** gooddata_fdw.column_validation.ColumnValidator

Bases: object

__init__()**Methods**

__init__()

validate(column_name, column_def)

gooddata_fdw.column_validation.IdOptionValidator**class** gooddata_fdw.column_validation.IdOptionValidator(*mandatory: bool*)Bases: *gooddata_fdw.column_validation.ColumnValidator***__init__**(*mandatory: bool*)**Methods**

__init__(mandatory)

validate(column_name, column_def)

gooddata_fdw.column_validation.LocalIdOptionValidator**class** gooddata_fdw.column_validation.LocalIdOptionValidatorBases: *gooddata_fdw.column_validation.ColumnValidator***__init__**()**Methods**

__init__()

validate(column_name, column_def)

4.1.3 gooddata_fdw.environment

This file exists because multicorn is not available as proper stand-alone python package that one could install and then use the different data types during testing.

The multicorn python code is part of the PostgreSQL extension installation.

Thus here is the layer of indirection that tries to import multicorn code and if that is not present (likely during test run) it will use stub implementations.

The stubbing only happens if the FDW code is called during test execution. Otherwise the import error is raised as usual to prevent some wicked behavior on mis-configured PostgreSQL.

Functions

log_to_postgres(msg, level)

gooddata_fdw.environment.log_to_postgres

`gooddata_fdw.environment.log_to_postgres(msg: str, level: int) → None`

Classes

ColumnDefinition alias of *gooddata_fdw.environment.ColumnDefinitionStub*

ColumnDefinitionStub(column_name, type_name, ...)

ForeignDataWrapper alias of *gooddata_fdw.environment.ForeignDataWrapperStub*

ForeignDataWrapperStub(options, columns)

Qual alias of *gooddata_fdw.environment.QualStub*

QualStub(field_name, operator, value)

TableDefinition alias of *gooddata_fdw.environment.TableDefinitionStub*

TableDefinitionStub(table_name, columns, options)

gooddata_fdw.environment.ColumnDefinition**gooddata_fdw.environment.ColumnDefinition**alias of *gooddata_fdw.environment.ColumnDefinitionStub***gooddata_fdw.environment.ColumnDefinitionStub**

class gooddata_fdw.environment.**ColumnDefinitionStub**(*column_name: str, type_name: str, options: dict[str, str]*)

Bases: object

__init__(*column_name: str, type_name: str, options: dict[str, str]*) → None**Methods**

__init__(column_name, type_name, options)

gooddata_fdw.environment.ForeignDataWrapper**gooddata_fdw.environment.ForeignDataWrapper**alias of *gooddata_fdw.environment.ForeignDataWrapperStub***gooddata_fdw.environment.ForeignDataWrapperStub**

class gooddata_fdw.environment.**ForeignDataWrapperStub**(*options: dict[str, str], columns: dict[str, ColumnDefinition]*)

Bases: object

__init__(*options: dict[str, str], columns: dict[str, ColumnDefinition]*) → None**Methods**

__init__(options, columns)

execute(quals, columns[, sortkeys])

import_schema(schema, srv_options, options, ...)

`gooddata_fdw.environment.Qual`

`gooddata_fdw.environment.Qual`
alias of `gooddata_fdw.environment.QualStub`

`gooddata_fdw.environment.QualStub`

class `gooddata_fdw.environment.QualStub`(*field_name: str, operator: Union[str, tuple[str, str]], value: Any*)

Bases: object

__init__(*field_name: str, operator: Union[str, tuple[str, str]], value: Any*) → None

Methods

__init__(*field_name, operator, value*)

`gooddata_fdw.environment.TableDefinition`

`gooddata_fdw.environment.TableDefinition`
alias of `gooddata_fdw.environment.TableDefinitionStub`

`gooddata_fdw.environment.TableDefinitionStub`

class `gooddata_fdw.environment.TableDefinitionStub`(*table_name: str, columns: list[ColumnDefinition], options: dict[str, str]*)

Bases: object

__init__(*table_name: str, columns: list[ColumnDefinition], options: dict[str, str]*) → None

Methods

__init__(*table_name, columns, options*)

4.1.4 `gooddata_fdw.executor`

Classes

`ComputeExecutor`(inputs)

`CustomExecutor`(inputs)

`Executor`(inputs, column_validators)

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ExecutorFactory()

InitData(sdk, server_options, table_options, ...)

InsightExecutor(inputs)

gooddata_fdw.executor.ComputeExecutor**class** gooddata_fdw.executor.**ComputeExecutor**(inputs: gooddata_fdw.executor.InitData)Bases: *gooddata_fdw.executor.Executor***__init__**(inputs: gooddata_fdw.executor.InitData) → None**Methods**

__init__(inputs)

can_react(inputs)

execute(quals, columns[, sort_keys])

validate_columns_def()

gooddata_fdw.executor.CustomExecutor**class** gooddata_fdw.executor.**CustomExecutor**(inputs: gooddata_fdw.executor.InitData)Bases: *gooddata_fdw.executor.Executor***__init__**(inputs: gooddata_fdw.executor.InitData) → None**Methods**

__init__(inputs)

can_react(inputs)

execute(quals, columns[, sort_keys])

validate_columns_def()

`gooddata_fdw.executor.Executor`

```
class gooddata_fdw.executor.Executor(inputs: InitData, column_validators:  
                                     list[col_val.ColumnValidator])  
    Bases: object  
    __init__(inputs: InitData, column_validators: list[col_val.ColumnValidator]) → None
```

Methods

```
__init__(inputs, column_validators)
```

```
can_react(inputs)
```

```
execute(quals, columns[, sort_keys])
```

```
validate_columns_def()
```

`gooddata_fdw.executor.ExecutorFactory`

```
class gooddata_fdw.executor.ExecutorFactory  
    Bases: object  
    __init__()
```

Methods

```
__init__()
```

```
create(inputs)
```

`gooddata_fdw.executor.InitData`

```
class gooddata_fdw.executor.InitData(sdk, server_options, table_options, columns)  
    Bases: tuple  
    __init__()
```


Methods

<code>__init__()</code>	
<code>count(value, /)</code>	Return number of occurrences of value.
<code>index(value[, start, stop])</code>	Return first index of value.

Attributes

<code>columns</code>	Alias for field number 3
<code>sdk</code>	Alias for field number 0
<code>server_options</code>	Alias for field number 1
<code>table_options</code>	Alias for field number 2

property columns

Alias for field number 3

count(value, /)

Return number of occurrences of value.

index(value, start=0, stop=9223372036854775807, /)

Return first index of value.

Raises ValueError if the value is not present.

property sdk

Alias for field number 0

property server_options

Alias for field number 1

property table_options

Alias for field number 2

gooddata_fdw.executor.InsightExecutor

class gooddata_fdw.executor.**InsightExecutor**(inputs: gooddata_fdw.executor.InitData)

Bases: *gooddata_fdw.executor.Executor*

`__init__(inputs: gooddata_fdw.executor.InitData) → None`

Methods

<code>__init__(inputs)</code>	
<code>can_react(inputs)</code>	
<code>execute(quals, columns[, sort_keys])</code>	
<code>validate_columns_def()</code>	

4.1.5 gooddata_fdw.fdw

Module Attributes

<code>USER_AGENT</code>	Extra segment of the User-Agent header that will be appended to standard gooddata-sdk user agent.
-------------------------	---

gooddata_fdw.fdw.USER_AGENT

`gooddata_fdw.fdw.USER_AGENT = 'gooddata-fdw/0.8.0'`

Extra segment of the User-Agent header that will be appended to standard gooddata-sdk user agent.

Classes

<code>GoodDataForeignDataWrapper</code> (options, columns)
--

gooddata_fdw.fdw.GoodDataForeignDataWrapper

class `gooddata_fdw.fdw.GoodDataForeignDataWrapper`(options: dict[str, str], columns: dict[str, ColumnDefinition])

Bases: `gooddata_fdw.environment.ForeignDataWrapperStub`

`__init__`(options: dict[str, str], columns: dict[str, ColumnDefinition]) → None

Methods

<code>__init__</code> (options, columns)
<code>delete</code> (oldvalues)
<code>execute</code> (quals, columns[, sortkeys])
<code>import_schema</code> (schema, srv_options, options, ...)
<code>insert</code> (values)
<code>update</code> (oldvalues, newvalues)

Attributes

rowid_column

4.1.6 gooddata_fdw.filter

Functions

<code>extract_filters_from_qual</code>	(quals,	ta-	Convert quals to filters.
	ble_columns)		

gooddata_fdw.filter.extract_filters_from_qual

`gooddata_fdw.filter.extract_filters_from_qual(quals: list[Qual], table_columns: dict[str, ColumnDefinition]) → list[Filter]`

Convert quals to filters. Now only simple attribute filters are supported.

Parameters

- **quals** – multicorn quals representing filters in SQL WHERE clause
- **table_columns** – list of table columns

Returns list of filters

4.1.7 gooddata_fdw.import_workspace

Classes

`ImporterInitData(sdk, workspace, ...)`

`InsightsWorkspaceImporter(data)`

`SemanticLayerWorkspaceImporter(data)`

`WorkspaceImporter(data)`

`WorkspaceImportersLocator()`

gooddata_fdw.import_workspace.ImporterInitData

```
class gooddata_fdw.import_workspace.ImporterInitData(sdk, workspace, server_options,
                                                    import_options, restriction_type, restricts)
```

Bases: tuple

__init__()

Methods

__init__()

count(value, /) Return number of occurrences of value.

index(value[, start, stop]) Return first index of value.

Attributes

import_options Alias for field number 3

restriction_type Alias for field number 4

restricts Alias for field number 5

sdk Alias for field number 0

server_options Alias for field number 2

workspace Alias for field number 1

count(value, /)
Return number of occurrences of value.

property import_options
Alias for field number 3

index(value, start=0, stop=9223372036854775807, /)
Return first index of value.

Raises ValueError if the value is not present.

property restriction_type
Alias for field number 4

property restricts
Alias for field number 5

property sdk
Alias for field number 0

property server_options
Alias for field number 2

property workspace
Alias for field number 1

gooddata_fdw.import_workspace.InsightsWorkspaceImporter

class gooddata_fdw.import_workspace.InsightsWorkspaceImporter(*data*: good-
data_fdw.import_workspace.ImporterInitData)

Bases: *gooddata_fdw.import_workspace.WorkspaceImporter*

__init__(*data*: gooddata_fdw.import_workspace.ImporterInitData) → None

Methods

__init__(*data*)

import_tables()

support_object_type(object_type)

gooddata_fdw.import_workspace.SemanticLayerWorkspaceImporter

class gooddata_fdw.import_workspace.SemanticLayerWorkspaceImporter(*data*: good-
data_fdw.import_workspace.ImporterInitData)

Bases: *gooddata_fdw.import_workspace.WorkspaceImporter*

__init__(*data*: gooddata_fdw.import_workspace.ImporterInitData) → None

Methods

__init__(*data*)

import_tables()

support_object_type(object_type)

gooddata_fdw.import_workspace.WorkspaceImporter

class gooddata_fdw.import_workspace.WorkspaceImporter(*data*: good-
data_fdw.import_workspace.ImporterInitData)

Bases: object

__init__(*data*: gooddata_fdw.import_workspace.ImporterInitData) → None

Methods

`__init__(data)`

`import_tables()`

`support_object_type(object_type)`

gooddata_fdw.import_workspace.WorkspaceImportersLocator

class gooddata_fdw.import_workspace.**WorkspaceImportersLocator**

Bases: object

`__init__()`

Methods

`__init__()`

`locate(object_type)`

`register(class_)`

4.1.8 gooddata_fdw.naming

Classes

CatalogNamingStrategy()

DefaultCatalogNamingStrategy()

DefaultInsightColumnNaming()

DefaultInsightTableNameNaming()

InsightColumnNamingStrategy()

InsightTableNameNamingStrategy()

gooddata_fdw.naming.CatalogNamingStrategy**class** gooddata_fdw.naming.CatalogNamingStrategy

Bases: object

__init__()**Methods****__init__**()

col_name_for_fact(attr)

col_name_for_label(attr)

col_name_for_metric(attr)

gooddata_fdw.naming.DefaultCatalogNamingStrategy**class** gooddata_fdw.naming.DefaultCatalogNamingStrategy

Bases: object

__init__() → None**Methods****__init__**()

col_name_for_fact(fact, dataset)

col_name_for_label(label, dataset)

col_name_for_metric(metric)

gooddata_fdw.naming.DefaultInsightColumnNaming**class** gooddata_fdw.naming.DefaultInsightColumnNamingBases: *gooddata_fdw.naming.InsightColumnNamingStrategy***__init__**() → None

Methods

`__init__()`

`col_name_for_attribute(attr)`

`col_name_for_metric(metric)`

`gooddata_fdw.naming.DefaultInsightTableNaming`

class `gooddata_fdw.naming.DefaultInsightTableNaming`
Bases: `gooddata_fdw.naming.InsightTableNamingStrategy`
`__init__()` → None

Methods

`__init__()`

`table_name_for_insight(insight)`

`gooddata_fdw.naming.InsightColumnNamingStrategy`

class `gooddata_fdw.naming.InsightColumnNamingStrategy`
Bases: `object`
`__init__()`

Methods

`__init__()`

`col_name_for_attribute(attr)`

`col_name_for_metric(attr)`

gooddata_fdw.naming.InsightTableNamingStrategy**class** gooddata_fdw.naming.InsightTableNamingStrategy

Bases: object

__init__()**Methods***__init__*()

table_name_for_insight(insight)

4.1.9 gooddata_fdw.options**Classes***BaseOptions*([validate, skip_attributes])*ImportSchemaOptions*(options)*ServerOptions*(options)*TableOptions*(options)**gooddata_fdw.options.BaseOptions****class** gooddata_fdw.options.BaseOptions(validate: bool = True, skip_attributes: Optional[list[str]] = None)

Bases: object

__init__(validate: bool = True, skip_attributes: Optional[list[str]] = None) → None**Methods***__init__*([validate, skip_attributes])

gooddata_fdw.options.ImportSchemaOptions

class gooddata_fdw.options.**ImportSchemaOptions**(options: dict[str, str])

Bases: [gooddata_fdw.options.BaseOptions](#)

__init__(options: dict[str, str]) → None

Methods

[__init__](#)(options)

metric_data_type([precision])

Attributes

METRIC_DIGITS_AFTER_DEC_POINT_DEFAULT

METRIC_DIGITS_BEFORE_DEC_POINT_DEFAULT

numeric_max_size

object_type

gooddata_fdw.options.ServerOptions

class gooddata_fdw.options.**ServerOptions**(options: dict[str, str])

Bases: [gooddata_fdw.options.BaseOptions](#)

__init__(options: dict[str, str]) → None

Methods

[__init__](#)(options)

Attributes

headers_host

host

token

gooddata_fdw.options.TableOptions

class gooddata_fdw.options.**TableOptions**(options: dict[str, str])

Bases: *gooddata_fdw.options.BaseOptions*

__init__(options: dict[str, str]) → None

Methods

__init__(options)

Attributes

compute

insight

workspace

4.1.10 gooddata_fdw.pg_logging**4.1.11 gooddata_fdw.result_reader****Classes**

InsightTableResultReader(table_columns, ...)

TableResultReader(table_columns)

gooddata_fdw.result_reader.InsightTableResultReader

class gooddata_fdw.result_reader.**InsightTableResultReader**(table_columns: dict[str, ColumnDefinition], query_columns: list[str])

Bases: *gooddata_fdw.result_reader.TableResultReader*

__init__(table_columns: dict[str, ColumnDefinition], query_columns: list[str]) → None

Methods

`__init__(table_columns, query_columns)`

`read_all_rows(table)`

`gooddata_fdw.result_reader.TableResultReader`

class `gooddata_fdw.result_reader.TableResultReader`(*table_columns: dict[str, ColumnDefinition]*)
Bases: `object`

`__init__(table_columns: dict[str, ColumnDefinition])` → `None`

Methods

`__init__(table_columns)`

`read_all_rows(table)`

4.2 `gooddata_sdk`

The *gooddata-sdk* package aims to provide clean and convenient Python APIs to interact with GoodData.CN.

At the moment the SDK provides services to inspect and interact with the Semantic Model and consume analytics.

Modules

`gooddata_sdk.catalog`

`gooddata_sdk.client`

Module containing a class that provides access to meta-data and afm services.

`gooddata_sdk.compute`

`gooddata_sdk.insight`

`gooddata_sdk.sdk`

`gooddata_sdk.support`

`gooddata_sdk.table`

`gooddata_sdk.type_converter`

`gooddata_sdk.utils`

4.2.1 gooddata_sdk.catalog

Modules

gooddata_sdk.catalog.catalog_service_base

gooddata_sdk.catalog.data_source

gooddata_sdk.catalog.entity

gooddata_sdk.catalog.identifier

gooddata_sdk.catalog.organization

gooddata_sdk.catalog.permissions

gooddata_sdk.catalog.types

gooddata_sdk.catalog.workspace

gooddata_sdk.catalog.catalog_service_base

Classes

CatalogServiceBase(api_client)

gooddata_sdk.catalog.catalog_service_base.CatalogServiceBase

class gooddata_sdk.catalog.catalog_service_base.CatalogServiceBase(*api_client*: gooddata_sdk.client.GoodDataApiClient)

Bases: object

__init__(*api_client*: gooddata_sdk.client.GoodDataApiClient) → None

Methods

__init__(api_client)

get_organization()

layout_organization_folder(layout_root_path)

Attributes

`organization_id`

`gooddata_sdk.catalog.data_source`

Modules

`gooddata_sdk.catalog.data_source.
action_requests`

`gooddata_sdk.catalog.data_source.
declarative_model`

`gooddata_sdk.catalog.data_source.
entity_model`

`gooddata_sdk.catalog.data_source.service`

`gooddata_sdk.catalog.data_source.
validation`

`gooddata_sdk.catalog.data_source.action_requests`

Modules

`gooddata_sdk.catalog.data_source.
action_requests.ldm_request`

`gooddata_sdk.catalog.data_source.
action_requests.scan_model_request`

`gooddata_sdk.catalog.data_source.action_requests.ldm_request`

Classes

`CatalogGenerateLdmRequest(separator[, ...])`

gooddata_sdk.catalog.data_source.action_requests.ldm_request.CatalogGenerateLdmRequest

```
class gooddata_sdk.catalog.data_source.action_requests.ldm_request.CatalogGenerateLdmRequest (separator:
    str,
    gen-
    er-
    ate_long_ids:
    Op-
    tional[bool]
    =
    None,
    ta-
    ble_prefix:
    Op-
    tional[str]
    =
    None,
    view_prefix:
    Op-
    tional[str]
    =
    None,
    pri-
    mary_label_p-
    Op-
    tional[str]
    =
    None,
    sec-
    ondary_label-
    Op-
    tional[str]
    =
    None,
    fact_prefix:
    Op-
    tional[str]
    =
    None,
    date_granula-
    Op-
    tional[str]
    =
    None,
    grain_prefix:
    Op-
    tional[str]
    =
    None,
    ref-
    er-
    ence_prefix:
    Op-
    tional[str]
    =
    None,
    grain_referen-
    Op-
    tional[str]
    =
```

```
__init__(separator: str, generate_long_ids: Optional[bool] = None, table_prefix: Optional[str] = None,
         view_prefix: Optional[str] = None, primary_label_prefix: Optional[str] = None,
         secondary_label_prefix: Optional[str] = None, fact_prefix: Optional[str] = None,
         date_granularities: Optional[str] = None, grain_prefix: Optional[str] = None, reference_prefix:
         Optional[str] = None, grain_reference_prefix: Optional[str] = None, denorm_prefix: Optional[str]
         = None, wdf_prefix: Optional[str] = None)
```

Methods

```
__init__(separator[, generate_long_ids, ...])
```

```
to_api()
```

gooddata_sdk.catalog.data_source.action_requests.scan_model_request

Classes

```
CatalogScanModelRequest([separator, ...])
```

gooddata_sdk.catalog.data_source.action_requests.scan_model_request.CatalogScanModelRequest

```
class gooddata_sdk.catalog.data_source.action_requests.scan_model_request.CatalogScanModelRequest(separator: str,
scan_tables: bool = True, scan_views: bool = False, table_prefix: Optional[str] = None, view_prefix: Optional[str] = None)
    str
    =
    '___',
    scan_tables: bool
    =
    True,
    scan_views: bool
    =
    False,
    table_prefix: Optional[str]
    =
    None,
    view_prefix: Optional[str]
    =
    None)
```

Bases: object

```
__init__(separator: str = '___', scan_tables: bool = True, scan_views: bool = False, table_prefix:
         Optional[str] = None, view_prefix: Optional[str] = None)
```

Methods

`__init__([separator, scan_tables, ...])`

`to_api()`

`gooddata_sdk.catalog.data_source.declarative_model`

Modules

`gooddata_sdk.catalog.data_source.
declarative_model.data_source`

`gooddata_sdk.catalog.data_source.
declarative_model.physical_model`

`gooddata_sdk.catalog.data_source.declarative_model.data_source`

Classes

`CatalogDeclarativeDataSource(id, type, name, ...)`

`CatalogDeclarativeDataSources(data_sources)`

gooddata_sdk.catalog.data_source.declarative_model.data_source.CatalogDeclarativeDataSource

```
class gooddata_sdk.catalog.data_source.declarative_model.data_source.CatalogDeclarativeDataSource(id:
    str,
    type:
    str,
    name:
    str,
    url:
    str,
    schema:
    str,
    enable_caching:
    Optional[bool],
    pdm:
    Optional[CatalogDeclarativeTables],
    cache_path:
    Optional[list[str]] = None,
    username:
    Optional[str] = None,
    permissions:
    list[CatalogDeclarativeDataSourcePermission] = None)

Bases: gooddata_sdk.catalog.entity.CatalogTypeEntity

__init__(id: str, type: str, name: str, url: str, schema: str, enable_caching: Optional[bool], pdm:
    Optional[CatalogDeclarativeTables], cache_path: Optional[list[str]] = None, username:
    Optional[str] = None, permissions: list[CatalogDeclarativeDataSourcePermission] = None)
```

Methods

```
__init__(id, type, name, url, schema, ...[, ...])
```

```
data_source_folder(data_sources_folder, ...)
```

```
from_api(entity)
```

```
load_from_disk(data_sources_folder, ...)
```

continues on next page

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<code>store_to_disk(data_sources_folder)</code>
<code>to_api([password, token, ...])</code>
<code>to_test_request([password, token])</code>

gooddata_sdk.catalog.data_source.declarative_model.data_source.CatalogDeclarativeDataSources

class gooddata_sdk.catalog.data_source.declarative_model.data_source.CatalogDeclarativeDataSources(*data_sources: list[CatalogDeclarativeDataSource]*)

Bases: object

__init__(*data_sources: list[CatalogDeclarativeDataSource]*)

Methods

__init__(*data_sources*)

data_sources_folder(*layout_organization_folder*)

from_api(*entity*)

from_dict(*data[, camel_case]*)

param data Data loaded for example from the file.

load_from_disk(*layout_organization_folder*)

store_to_disk(*layout_organization_folder*)

to_api(*[credentials]*)

classmethod from_dict(*data: dict[str, Any], camel_case: bool = True*) → *CatalogDeclarativeDataSources*

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns CatalogDeclarativeDataSources object.

gooddata_sdk.catalog.data_source.declarative_model.physical_model**Modules**

```
gooddata_sdk.catalog.data_source.  
declarative_model.physical_model.column
```

```
gooddata_sdk.catalog.data_source.  
declarative_model.physical_model.pdm
```

```
gooddata_sdk.catalog.data_source.  
declarative_model.physical_model.table
```

gooddata_sdk.catalog.data_source.declarative_model.physical_model.column**Classes**

```
CatalogDeclarativeColumn(name, data_type, ...)
```

gooddata_sdk.catalog.data_source.declarative_model.physical_model.column.CatalogDeclarativeColumn

```
class gooddata_sdk.catalog.data_source.declarative_model.physical_model.column.CatalogDeclarativeColumn
```

Bases: object

```
__init__(name: str, data_type: str, is_primary_key: Optional[bool], referenced_table_id: Optional[str],  
         referenced_table_column: Optional[str])
```

Methods

`__init__(name, data_type, is_primary_key, ...)`

`from_api(entity)`

`to_api()`

gooddata_sdk.catalog.data_source.declarative_model.physical_model.pdm

Functions

`get_pdm_folder(data_source_folder)`

gooddata_sdk.catalog.data_source.declarative_model.physical_model.pdm.get_pdm_folder

`gooddata_sdk.catalog.data_source.declarative_model.physical_model.pdm.get_pdm_folder(data_source_folder: pathlib.Path) → pathlib.Path`

Classes

`CatalogDeclarativeTables(tables)`

`CatalogScanResultPdm(pdm, warnings)`

gooddata_sdk.catalog.data_source.declarative_model.physical_model.pdm.CatalogDeclarativeTables

class `gooddata_sdk.catalog.data_source.declarative_model.physical_model.pdm.CatalogDeclarativeTables` (*tables: list[CatalogDeclarativeTable]*)

Bases: `object`

`__init__(tables: list[CatalogDeclarativeTable])`

Methods

`__init__(tables)`

`from_api(entity)`

`from_dict(data[, camel_case])`

param data Data loaded for example from the file.

`load_from_disk(data_source_folder)`

`store_to_disk(data_source_folder)`

`to_api()`

classmethod `from_dict(data: dict[str, Any], camel_case: bool = True) → CatalogDeclarativeTables`

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns DeclarativeTables object.

`gooddata_sdk.catalog.data_source.declarative_model.physical_model.pdm.CatalogScanResultPdm`

```
class gooddata_sdk.catalog.data_source.declarative_model.physical_model.pdm.CatalogScanResultPdm(pdm:
    Cat-
    a-
    logDecl
    a-
    tiveTa-
    bles,
    warn-
    ings:
    list[dict,
```

Bases: object

`__init__(pdm: CatalogDeclarativeTables, warnings: list[dict])`

Methods

`__init__(pdm, warnings)`

`from_api(entity)`

`gooddata_sdk.catalog.data_source.declarative_model.physical_model.table`

Classes

`CatalogDeclarativeTable(id, type, path, columns)`

`gooddata_sdk.catalog.data_source.declarative_model.physical_model.table.CatalogDeclarativeTable`

class `gooddata_sdk.catalog.data_source.declarative_model.physical_model.table.CatalogDeclarativeTable`(*id*, *type*, *path*, *columns*)

Bases: `gooddata_sdk.catalog.entity.CatalogTypeEntity`

`__init__(id: str, type: str, path: list[str], columns: list[CatalogDeclarativeColumn])`

Methods

`__init__(id, type, path, columns)`

`from_api(entity)`

`store_to_disk(pdm_folder)`

`to_api()`

gooddata_sdk.catalog.data_source.entity_model**Modules**

```
gooddata_sdk.catalog.data_source.  
entity_model.content_objects
```

```
gooddata_sdk.catalog.data_source.  
entity_model.data_source
```

gooddata_sdk.catalog.data_source.entity_model.content_objects**Modules**

```
gooddata_sdk.catalog.data_source.  
entity_model.content_objects.table
```

gooddata_sdk.catalog.data_source.entity_model.content_objects.table**Classes**

```
CatalogDataSourceTable(entity)
```

```
CatalogDataSourceTableColumn(column)
```

gooddata_sdk.catalog.data_source.entity_model.content_objects.table.CatalogDataSourceTable

```
class gooddata_sdk.catalog.data_source.entity_model.content_objects.table.CatalogDataSourceTable(entity:  
dict[str,  
Any])
```

```
Bases: gooddata_sdk.catalog.entity.CatalogEntity
```

```
__init__(entity: dict[str, Any]) → None
```

Methods

```
__init__(entity)
```

Attributes

columns
description
id
obj_id
path
table_type
title
type
username

gooddata_sdk.catalog.data_source.entity_model.content_objects.table.CatalogDataSourceTableColumn**class** gooddata_sdk.catalog.data_source.entity_model.content_objects.table.CatalogDataSourceTableColumn(
 column: dict[str, Any]) → None

Bases: object

__init__(*column: dict[str, Any]*) → None**Methods**

<code>__init__</code> (column)

Attributes

data_type
name
primary_key
referenced_table_column
referenced_table_id

gooddata_sdk.catalog.data_source.entity_model.data_source**Classes**

BigQueryAttributes(project_id[, port])

CatalogDataSource(id, name, schema, credentials)

CatalogDataSourceBigQuery(id, name, schema, ...)

CatalogDataSourcePostgres(id, name, schema, ...)

CatalogDataSourceRedshift(id, name, schema, ...)

CatalogDataSourceSnowflake(id, name, schema,
...)

CatalogDataSourceVertica(id, name, schema, ...)

DatabaseAttributes()

PostgresAttributes(host, db_name[, port])

RedshiftAttributes(host, db_name[, port])

SnowflakeAttributes(account, warehouse,
db_name)

VerticaAttributes(host, db_name[, port])

gooddata_sdk.catalog.data_source.entity_model.data_source.BigQueryAttributes

```

class gooddata_sdk.catalog.data_source.entity_model.data_source.BigQueryAttributes(project_id:
                                                                                    str,
                                                                                    port: str
                                                                                    =
                                                                                    '443')
    Bases: gooddata_sdk.catalog.data_source.entity_model.data_source.DatabaseAttributes
    __init__(project_id: str, port: str = '443')
```

Methods

__init__(project_id[, port])

Attributes

str_attributes

`gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSource`

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSource(id: str,
                                                                                    name:
                                                                                    str,
                                                                                    schema:
                                                                                    str, credentials:
                                                                                    Credentials, url:
                                                                                    Optional[str]
                                                                                    = None,
                                                                                    data_source_type:
                                                                                    Optional[str]
                                                                                    = None,
                                                                                    db_specific_attributes:
                                                                                    Optional[DatabaseAttributes]
                                                                                    = None,
                                                                                    enable_caching:
                                                                                    Optional[bool]
                                                                                    = None,
                                                                                    cache_path:
                                                                                    Optional[list[str]]
                                                                                    = None,
                                                                                    url_params:
                                                                                    Optional[List[Tuple[str,
                                                                                    str]]] =
                                                                                    None)
```

Bases: `gooddata_sdk.catalog.entity.CatalogNameEntity`

```
__init__(id: str, name: str, schema: str, credentials: Credentials, url: Optional[str] = None,
          data_source_type: Optional[str] = None, db_specific_attributes: Optional[DatabaseAttributes] =
          None, enable_caching: Optional[bool] = None, cache_path: Optional[list[str]] = None,
          url_params: Optional[List[Tuple[str, str]]] = None)
```

Methods

`__init__(id, name, schema, credentials[, ...])`

`from_api(entity)`

`to_api()`

`to_api_patch(data_source_id, attributes)`

`gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceBigQuery`

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceBigQuery(id:
    str,
    name:
    str,
    schema:
    str,
    cre-
    den-
    tials:
    Cre-
    den-
    tials,
    url:
    Op-
    tional[str]
    =
    None,
    data_source_type:
    Op-
    tional[str]
    =
    None,
    db_specific_attri-
    butes:
    Op-
    tional[DatabaseA-
    ttributes]
    =
    None,
    en-
    able_caching:
    Op-
    tional[bool]
    =
    None,
    cache_path:
    Op-
    tional[list[str]]
    =
    None,
    url_params:
    Op-
    tional[List[Tuple[
    str]]]
    =
    None)
```

Bases: `gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSource`

```
__init__(id: str, name: str, schema: str, credentials: Credentials, url: Optional[str] = None,
    data_source_type: Optional[str] = None, db_specific_attributes: Optional[DatabaseAttributes] =
    None, enable_caching: Optional[bool] = None, cache_path: Optional[list[str]] = None,
    url_params: Optional[List[Tuple[str, str]]] = None)
```

Methods

`__init__(id, name, schema, credentials[, ...])`

`from_api(entity)`

`to_api()`

`to_api_patch(data_source_id, attributes)`

gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourcePostgres

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourcePostgres(id:
    str,
    name:
    str,
    schema:
    str,
    cre-
    den-
    tials:
    Cre-
    den-
    tials,
    url:
    Op-
    tional[str]
    =
    None,
    data_source_type:
    Op-
    tional[str]
    =
    None,
    db_specific_attri-
    butes:
    Op-
    tional[DatabaseA-
    ttributes]
    =
    None,
    en-
    able_caching:
    Op-
    tional[bool]
    =
    None,
    cache_path:
    Op-
    tional[list[str]]
    =
    None,
    url_params:
    Op-
    tional[List[Tuple[
    str]]]
    =
    None)
```

Bases: `gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSource`

```
__init__(id: str, name: str, schema: str, credentials: Credentials, url: Optional[str] = None,
    data_source_type: Optional[str] = None, db_specific_attributes: Optional[DatabaseAttributes] =
    None, enable_caching: Optional[bool] = None, cache_path: Optional[list[str]] = None,
    url_params: Optional[List[Tuple[str, str]]] = None)
```


Methods

`__init__(id, name, schema, credentials[, ...])`

`from_api(entity)`

`to_api()`

`to_api_patch(data_source_id, attributes)`

`gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceRedshift`

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceRedshift(id:
    str,
    name:
    str,
    schema:
    str,
    cre-
    den-
    tials:
    Cre-
    den-
    tials,
    url:
    Op-
    tional[str]
    =
    None,
    data_source_type:
    Op-
    tional[str]
    =
    None,
    db_specific_attrib-
    Op-
    tional[DatabaseA-
    =
    None,
    en-
    able_caching:
    Op-
    tional[bool]
    =
    None,
    cache_path:
    Op-
    tional[list[str]]
    =
    None,
    url_params:
    Op-
    tional[List[Tuple[
    str]]]
    =
    None)

Bases:
    gooddata_sdk.catalog.data_source.entity_model.data_source.
    CatalogDataSourcePostgres

__init__(id: str, name: str, schema: str, credentials: Credentials, url: Optional[str] = None,
    data_source_type: Optional[str] = None, db_specific_attributes: Optional[DatabaseAttributes] =
    None, enable_caching: Optional[bool] = None, cache_path: Optional[list[str]] = None,
    url_params: Optional[List[Tuple[str, str]]] = None)
```

Methods

`__init__`(id, name, schema, credentials[, ...])

`from_api`(entity)

`to_api`()

`to_api_patch`(data_source_id, attributes)

`gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceSnowflake`

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceSnowflake(id:
    str,
    name:
    str,
    schema:
    str,
    cre-
    den-
    tials:
    Credentials,
    url:
    Optional[str]
    =
    None,
    data_source_type:
    Optional[str]
    =
    None,
    db_specific_attr:
    Optional[DatabaseAttributes]
    =
    None,
    enable_caching:
    Optional[bool]
    =
    None,
    cache_path:
    Optional[list[str]]
    =
    None,
    url_params:
    Optional[List[Tuple[str, str]]]
    =
    None)
```

Bases: `gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSource`

```
__init__(id: str, name: str, schema: str, credentials: Credentials, url: Optional[str] = None,
    data_source_type: Optional[str] = None, db_specific_attributes: Optional[DatabaseAttributes] =
    None, enable_caching: Optional[bool] = None, cache_path: Optional[list[str]] = None,
    url_params: Optional[List[Tuple[str, str]]] = None)
```

Methods

`__init__(id, name, schema, credentials[, ...])`

`from_api(entity)`

`to_api()`

`to_api_patch(data_source_id, attributes)`

gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceVertica

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.CatalogDataSourceVertica(id:
    str,
    name:
    str,
    schema:
    str,
    cre-
    den-
    tials:
    Cre-
    den-
    tials,
    url:
    Op-
    tional[str]
    =
    None,
    data_source_type:
    Op-
    tional[str]
    =
    None,
    db_specific_attributes:
    Op-
    tional[DatabaseAttributes]
    =
    None,
    enable_caching:
    Op-
    tional[bool]
    =
    None,
    cache_path:
    Op-
    tional[list[str]]
    =
    None,
    url_params:
    Op-
    tional[List[Tuple[str, str]]]
    =
    None)

Bases:
    gooddata_sdk.catalog.data_source.entity_model.data_source.
    CatalogDataSourcePostgres

__init__(id: str, name: str, schema: str, credentials: Credentials, url: Optional[str] = None,
    data_source_type: Optional[str] = None, db_specific_attributes: Optional[DatabaseAttributes] =
    None, enable_caching: Optional[bool] = None, cache_path: Optional[list[str]] = None,
    url_params: Optional[List[Tuple[str, str]]] = None)
```

Methods

`__init__(id, name, schema, credentials[, ...])`

`from_api(entity)`

`to_api()`

`to_api_patch(data_source_id, attributes)`

gooddata_sdk.catalog.data_source.entity_model.data_source.DatabaseAttributes**class** gooddata_sdk.catalog.data_source.entity_model.data_source.DatabaseAttributes

Bases: object

`__init__()`**Methods**

`__init__()`

Attributes

`str_attributes`

gooddata_sdk.catalog.data_source.entity_model.data_source.PostgresAttributes**class** gooddata_sdk.catalog.data_source.entity_model.data_source.PostgresAttributes(*host:*
str,
db_name:
str,
port: str
=
*'5432')*Bases: *gooddata_sdk.catalog.data_source.entity_model.data_source.DatabaseAttributes*`__init__(host: str, db_name: str, port: str = '5432')`

Methods

```
__init__(host, db_name[, port])
```

Attributes

```
str_attributes
```

`gooddata_sdk.catalog.data_source.entity_model.data_source.RedshiftAttributes`

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.RedshiftAttributes(host:
                                                                                    str,
                                                                                    db_name:
                                                                                    str,
                                                                                    port: str
                                                                                    =
                                                                                    '5439')

Bases: gooddata_sdk.catalog.data_source.entity_model.data_source.PostgresAttributes
__init__(host: str, db_name: str, port: str = '5439')
```

Methods

```
__init__(host, db_name[, port])
```

Attributes

```
str_attributes
```

`gooddata_sdk.catalog.data_source.entity_model.data_source.SnowflakeAttributes`

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.SnowflakeAttributes(account:
                                                                                    str,
                                                                                    ware-
                                                                                    house:
                                                                                    str,
                                                                                    db_name:
                                                                                    str,
                                                                                    port:
                                                                                    str =
                                                                                    '443')

Bases: gooddata_sdk.catalog.data_source.entity_model.data_source.DatabaseAttributes
```

```
__init__(account: str, warehouse: str, db_name: str, port: str = '443')
```

Methods

```
__init__(account, warehouse, db_name[, port])
```

Attributes

```
str_attributes
```

gooddata_sdk.catalog.data_source.entity_model.data_source.VerticaAttributes

```
class gooddata_sdk.catalog.data_source.entity_model.data_source.VerticaAttributes(host: str,
                                                                                    db_name:
                                                                                    str, port:
                                                                                    str =
                                                                                    '5433')
```

Bases: `gooddata_sdk.catalog.data_source.entity_model.data_source.PostgresAttributes`

```
__init__(host: str, db_name: str, port: str = '5433')
```

Methods

```
__init__(host, db_name[, port])
```

Attributes

```
str_attributes
```

gooddata_sdk.catalog.data_source.service

Classes

```
CatalogDataSourceService(api_client)
```

gooddata_sdk.catalog.data_source.service.CatalogDataSourceService

class gooddata_sdk.catalog.data_source.service.CatalogDataSourceService(*api_client*: gooddata_sdk.client.GoodDataApiClient)

Bases: *gooddata_sdk.catalog.catalog_service_base.CatalogServiceBase*

__init__(*api_client*: gooddata_sdk.client.GoodDataApiClient) → None

Methods

__init__(*api_client*)

create_or_update_data_source(*data_source*)

data_source_folder(*data_source_id*, ...)

delete_data_source(*data_source_id*)

generate_logical_model(*data_source_id*, ...)

get_data_source(*data_source_id*)

get_declarative_data_sources()

get_declarative_pdm(*data_source_id*)

get_organization()

layout_organization_folder(*layout_root_path*)

list_data_source_tables(*data_source_id*)

list_data_sources()

load_and_put_declarative_data_sources([...])

load_and_put_declarative_pdm(*data_source_id*)

load_declarative_data_sources([*layout_root_path*])

load_declarative_pdm(*data_source_id*[, ...])

patch_data_source_attributes(*data_source_id*, ...)

put_declarative_data_sources(...[, ...])

put_declarative_pdm(*data_source_id*, ...)

register_upload_notification(*data_source_id*)

continues on next page

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report_warnings(warnings)	
scan_and_put_pdm(data_source_id[, scan_request])	
scan_data_source(data_source_id[, ...])	
scan_schemata(data_source_id)	
store_declarative_data_sources([...])	
store_declarative_pdm(data_source_id[, ...])	
test_data_sources_connection(...[, ...])	
Attributes	
organization_id	

gooddata_sdk.catalog.data_source.validation**Modules**

*gooddata_sdk.catalog.data_source.
validation.data_source*

gooddata_sdk.catalog.data_source.validation.data_source**Classes**

DataSourceValidator(data_source_service)

gooddata_sdk.catalog.data_source.validation.data_source.DataSourceValidator

class gooddata_sdk.catalog.data_source.validation.data_source.DataSourceValidator(*data_source_service:*
good-
data_sdk.catalog.data_source.validation.data_source.DataSourceService)

Bases: object

__init__(*data_source_service:* gooddata_sdk.catalog.data_source.service.CatalogDataSourceService)

Methods

`__init__(data_source_service)`

`validate_data_source_ids(data_source_ids)`

`validate_ldm(model)`

gooddata_sdk.catalog.entity

Classes

BasicCredentials(username, password)

CatalogEntity(entity)

CatalogNameEntity(id, name)

CatalogTitleEntity(id, title)

CatalogTypeEntity(id, type)

Credentials()

TokenCredentials(token)

TokenCredentialsFromFile(file_path)

gooddata_sdk.catalog.entity.BasicCredentials

class gooddata_sdk.catalog.entity.**BasicCredentials**(username: str, password: str)

Bases: *gooddata_sdk.catalog.entity.Credentials*

`__init__(username: str, password: str)`

Methods

`__init__(username, password)`

`create(creds_classes, entity)`

`from_api(attributes)`

`is_part_of_api(entity)`

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`to_api_args()`

`validate_instance(creds_classes, instance)`

Attributes

`PASSWORD_KEY`

`USER_KEY`

`gooddata_sdk.catalog.entity.CatalogEntity`

class `gooddata_sdk.catalog.entity.CatalogEntity`(*entity: dict[str, Any]*)

Bases: `object`

`__init__`(*entity: dict[str, Any]*) → `None`

Methods

`__init__`(*entity*)

Attributes

`description`

`id`

`obj_id`

`title`

`type`

`gooddata_sdk.catalog.entity.CatalogNameEntity`

```
class gooddata_sdk.catalog.entity.CatalogNameEntity(id: str, name: str)
    Bases: object
    __init__(id: str, name: str)
```

Methods

```
__init__(id, name)
```

`gooddata_sdk.catalog.entity.CatalogTitleEntity`

```
class gooddata_sdk.catalog.entity.CatalogTitleEntity(id: str, title: str)
    Bases: object
    __init__(id: str, title: str)
```

Methods

```
__init__(id, title)
```

```
from_api(entity)
```

`gooddata_sdk.catalog.entity.CatalogTypeEntity`

```
class gooddata_sdk.catalog.entity.CatalogTypeEntity(id: str, type: str)
    Bases: object
    __init__(id: str, type: str)
```

Methods

```
__init__(id, type)
```

```
from_api(entity)
```

gooddata_sdk.catalog.entity.Credentials**class** gooddata_sdk.catalog.entity.Credentials

Bases: object

__init__()**Methods****__init__**()

create(creds_classes, entity)

from_api(entity)

is_part_of_api(entity)

to_api_args()

validate_instance(creds_classes, instance)

gooddata_sdk.catalog.entity.TokenCredentials**class** gooddata_sdk.catalog.entity.TokenCredentials(*token: str*)Bases: *gooddata_sdk.catalog.entity.Credentials***__init__**(*token: str*)**Methods****__init__**(token)

create(creds_classes, entity)

from_api(entity)

is_part_of_api(entity)

to_api_args()

validate_instance(creds_classes, instance)

Attributes

TOKEN_KEY

USER_KEY

gooddata_sdk.catalog.entity.TokenCredentialsFromFile

class gooddata_sdk.catalog.entity.**TokenCredentialsFromFile**(*file_path: pathlib.Path*)

Bases: *gooddata_sdk.catalog.entity.Credentials*

__init__(*file_path: pathlib.Path*)

Methods

__init__(*file_path*)

create(*creds_classes, entity*)

from_api(*entity*)

is_part_of_api(*entity*)

to_api_args()

token_from_file(*file_path*)

validate_instance(*creds_classes, instance*)

Attributes

TOKEN_KEY

USER_KEY

gooddata_sdk.catalog.identifier

Classes

CatalogAssigneeIdentifier(*id, type*)

CatalogGrainIdentifier(*id, type*)

continues on next page

Table 122 – continued from previous page

CatalogIdentifierBase(id)

CatalogReferenceIdentifier(id)

CatalogWorkspaceIdentifier(id)

gooddata_sdk.catalog.identifier.CatalogAssigneeIdentifier**class** gooddata_sdk.catalog.identifier.CatalogAssigneeIdentifier(*id: str, type: str*)Bases: *gooddata_sdk.catalog.entity.CatalogTypeEntity***__init__**(*id: str, type: str*)**Methods**

__init__(id, type)

from_api(entity)

to_api()

gooddata_sdk.catalog.identifier.CatalogGrainIdentifier**class** gooddata_sdk.catalog.identifier.CatalogGrainIdentifier(*id: str, type: str*)Bases: *gooddata_sdk.catalog.entity.CatalogTypeEntity***__init__**(*id: str, type: str*)**Methods**

__init__(id, type)

from_api(entity)

to_api()

gooddata_sdk.catalog.identifier.CatalogIdentifierBase

```
class gooddata_sdk.catalog.identifier.CatalogIdentifierBase(id: str)
    Bases: object
    __init__(id: str)
```

Methods

```
__init__(id)
```

```
from_api(entity)
```

gooddata_sdk.catalog.identifier.CatalogReferenceIdentifier

```
class gooddata_sdk.catalog.identifier.CatalogReferenceIdentifier(id: str)
    Bases: gooddata_sdk.catalog.identifier.CatalogIdentifierBase
    __init__(id: str)
```

Methods

```
__init__(id)
```

```
from_api(entity)
```

```
to_api()
```

gooddata_sdk.catalog.identifier.CatalogWorkspaceIdentifier

```
class gooddata_sdk.catalog.identifier.CatalogWorkspaceIdentifier(id: str)
    Bases: gooddata_sdk.catalog.identifier.CatalogIdentifierBase
    __init__(id: str)
```

Methods

```
__init__(id)
```

```
from_api(entity)
```

```
to_api()
```

gooddata_sdk.catalog.organization**Modules**

`gooddata_sdk.catalog.organization.
entity_model`

`gooddata_sdk.catalog.organization.service`

gooddata_sdk.catalog.organization.entity_model**Modules**

`gooddata_sdk.catalog.organization.
entity_model.organization`

gooddata_sdk.catalog.organization.entity_model.organization**Classes**

`CatalogOrganization(organization_id, name, ...)`

gooddata_sdk.catalog.organization.entity_model.organization.CatalogOrganization

class `gooddata_sdk.catalog.organization.entity_model.organization.CatalogOrganization`(*organization_id*:
str,
name:
str,
host-
name:
str)

Bases: `gooddata_sdk.catalog.entity.CatalogNameEntity`

__init__(*organization_id*: *str*, *name*: *str*, *hostname*: *str*) → None

Methods

__init__(*organization_id*, *name*, *hostname*)

from_api(*entity*)

to_api()

gooddata_sdk.catalog.organization.service

Classes

CatalogOrganizationService(api_client)

gooddata_sdk.catalog.organization.service.CatalogOrganizationService

class gooddata_sdk.catalog.organization.service.CatalogOrganizationService(*api_client*: gooddata_sdk.client.GoodDataApiClient)

Bases: *gooddata_sdk.catalog.catalog_service_base.CatalogServiceBase*

__init__(*api_client*: gooddata_sdk.client.GoodDataApiClient) → None

Methods

__init__(api_client)

get_organization()

layout_organization_folder(layout_root_path)

Attributes

organization_id

gooddata_sdk.catalog.permissions

Modules

gooddata_sdk.catalog.permissions.permission

gooddata_sdk.catalog.permissions.permission

Classes

CatalogDeclarativeDataSourcePermission(name, ...)

CatalogDeclarativeSingleWorkspacePermission(...)

continues on next page

Table 136 – continued from previous page

`CatalogDeclarativeWorkspaceHierarchyPermission(...)`

`CatalogDeclarativeWorkspacePermissions([...])`

`PermissionBase(name, assignee)`

`gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeDataSourcePermission`

```
class gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeDataSourcePermission(name:
                                                    str,
                                                    as-
                                                    signee:
                                                    good-
                                                    data_sdk.catalog.id
```

Bases: `gooddata_sdk.catalog.permissions.permission.PermissionBase`

`__init__(name: str, assignee: gooddata_sdk.catalog.identifier.CatalogAssigneeIdentifier)`

Methods

`__init__(name, assignee)`

`from_api(entity)`

`to_api()`

`gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeSingleWorkspacePermission`

```
class gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeSingleWorkspacePermission(name:
                                                    str,
                                                    as-
                                                    signee:
                                                    good-
                                                    data_sdk.ca
```

Bases: `gooddata_sdk.catalog.permissions.permission.PermissionBase`

`__init__(name: str, assignee: gooddata_sdk.catalog.identifier.CatalogAssigneeIdentifier)`

Methods

`__init__(name, assignee)`

`from_api(entity)`

`to_api()`

`gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeWorkspaceHierarchyPermission`

class `gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeWorkspaceHierarchyPermission`(*name:*
str,
as-
signee:
good-
data_sdk

Bases: `gooddata_sdk.catalog.permissions.permission.PermissionBase`

`__init__(name: str, assignee: gooddata_sdk.catalog.identifier.CatalogAssigneeIdentifier)`

Methods

`__init__(name, assignee)`

`from_api(entity)`

`to_api()`

`gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeWorkspacePermissions`

class `gooddata_sdk.catalog.permissions.permission.CatalogDeclarativeWorkspacePermissions`(*permissions:*
list[CatalogDeclarativeSingleWorkspacePermission]
=
None,
hi-
er-
ar-
chy_permissions:
list[CatalogDeclarativeWorkspaceHierarchyPermission]
=
None)

Bases: `object`

`__init__(permissions: list[CatalogDeclarativeSingleWorkspacePermission] = None, hierarchy_permissions: list[CatalogDeclarativeWorkspaceHierarchyPermission] = None)`

Methods

`__init__([permissions, hierarchy_permissions])`

`from_api(entity)`

`to_api()`

gooddata_sdk.catalog.permissions.permission.PermissionBase

```
class gooddata_sdk.catalog.permissions.permission.PermissionBase(name: str, assignee: good-
                                                                    data_sdk.catalog.identifier.CatalogAssigneeIdentifier)
```

Bases: object

```
__init__(name: str, assignee: gooddata_sdk.catalog.identifier.CatalogAssigneeIdentifier)
```

Methods

`__init__(name, assignee)`

`from_api(entity)`

gooddata_sdk.catalog.types**gooddata_sdk.catalog.workspace****Modules**

`gooddata_sdk.catalog.workspace.`
`declarative_model`

`gooddata_sdk.catalog.workspace.`
`entity_model`

`gooddata_sdk.catalog.workspace.`
`model_container`

`gooddata_sdk.catalog.workspace.service`

gooddata_sdk.catalog.workspace.declarative_model

Modules

*gooddata_sdk.catalog.workspace.
declarative_model.workspace*

gooddata_sdk.catalog.workspace.declarative_model.workspace

Modules

*gooddata_sdk.catalog.workspace.
declarative_model.workspace.
analytics_model*

*gooddata_sdk.catalog.workspace.
declarative_model.workspace.logical_model*

*gooddata_sdk.catalog.workspace.
declarative_model.workspace.workspace*

gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model

Modules

*gooddata_sdk.catalog.workspace.
declarative_model.workspace.
analytics_model.analytics_model*

gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model

Classes

CatalogAnalyticsBase(id, title, content[, ...])

CatalogDeclarativeAnalyticalDashboard(id, ...)

CatalogDeclarativeAnalytics([analytics])

CatalogDeclarativeAnalyticsLayer([...])

CatalogDeclarativeDashboardPlugin(id, title, ...)

CatalogDeclarativeFilterContext(id, title, ...)

CatalogDeclarativeMetric(id, title, content)

continues on next page

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CatalogDeclarativeVisualizationObject(id, ...)

gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogAnalyticsModel
class gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogAnalyticsModel

Bases: object

__init__(id: str, title: str, content: dict[str, Any], description: str = None, tags: list[str] = None)

Methods

__init__(id, title, content[, description, tags])

from_api(entity)

from_dict(data)

 For simplification, we can use directly from_api method, because all attributes follow the same attributes name convention, which is same for snake and camel case.

get_kwargs()

load_from_disk(analytics_file)

store_to_disk(analytics_folder)

to_api()

classmethod from_dict(data: dict[str, Any]) → T

For simplification, we can use directly from_api method, because all attributes follow the same attributes name convention, which is same for snake and camel case. The content attribute does not change (even if

we put it inside client class).

`gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

Bases: `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogAnalyticsBase`

`__init__(id: str, title: str, content: dict[str, Any], description: str = None, tags: list[str] = None)`

Methods

`__init__(id, title, content[, description, tags])`

`from_api(entity)`

`from_dict(data)`

For simplification, we can use directly `from_api` method, because all attributes follow the same attributes name convention, which is same for snake and camel case.

`get_kwargs()`

`load_from_disk(analytics_file)`

`store_to_disk(analytics_folder)`

`to_api()`

classmethod `from_dict(data: dict[str, Any]) → T`

For simplification, we can use directly `from_api` method, because all attributes follow the same attributes name convention, which is same for snake and camel case. The content attribute does not change (even if we put it inside client class).

`gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeAnalytics`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeAnalytics`

Bases: `object`

`__init__`(*analytics: Optional[gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeAnalytics] = None*)

Methods

`__init__`([*analytics*])

`from_api`(*entity*)

`from_dict`(*data*[, *camel_case*])

param data Data loaded for example from the file.

`load_from_disk`(*workspace_folder*)

`store_to_disk`(*workspace_folder*)

`to_api`()

classmethod `from_dict`(*data: dict[str, Any]*, *camel_case: bool = True*) → *CatalogDeclarativeAnalytics*

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns `CatalogDeclarativeAnalytics` object.

`gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

Bases: `object`

```
__init__(analytical_dashboards: list[CatalogDeclarativeAnalyticalDashboard] = None, dashboard_plugins: list[CatalogDeclarativeDashboardPlugin] = None, filter_contexts: list[CatalogDeclarativeFilterContext] = None, metrics: list[CatalogDeclarativeMetric] = None, visualization_objects: list[CatalogDeclarativeVisualizationObject] = None)
```

Methods

`__init__([analytical_dashboards, ...])`

`from_api(entity)`

`get_analytical_dashboards_folder(...)`

`get_analytics_model_folder(workspace_folder)`

`get_dashboard_plugins_folder(...)`

`get_filter_contexts_folder(...)`

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Table 150 – continued from previous page

<code>get_metrics_folder(analytics_model_folder)</code>
<code>get_visualization_objects_folder(...)</code>
<code>load_from_disk(workspace_folder)</code>
<code>store_to_disk(workspace_folder)</code>
<code>to_api()</code>

`gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

Bases: `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogAnalyticsBase`

`__init__(id: str, title: str, content: dict[str, Any], description: str = None, tags: list[str] = None)`

Methods

<code>__init__(id, title, content[, description, tags])</code>	
<code>from_api(entity)</code>	
<code>from_dict(data)</code>	For simplification, we can use directly <code>from_api</code> method, because all attributes follow the same attributes name convention, which is same for snake and camel case.
<code>get_kwargs()</code>	

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Table 151 – continued from previous page

<code>load_from_disk(analytics_file)</code>
<code>store_to_disk(analytics_folder)</code>
<code>to_api()</code>

classmethod `from_dict(data: dict[str, Any]) → T`

For simplification, we can use directly `from_api` method, because all attributes follow the same attributes name convention, which is same for snake and camel case. The content attribute does not change (even if we put it inside client class).

`gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

class `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

Bases: `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogAnalyticsBase`

`__init__(id: str, title: str, content: dict[str, Any], description: str = None, tags: list[str] = None)`

Methods

<code>__init__(id, title, content[, description, tags])</code>	
<code>from_api(entity)</code>	
<code>from_dict(data)</code>	For simplification, we can use directly <code>from_api</code> method, because all attributes follow the same attributes name convention, which is same for snake and camel case.
<code>get_kwargs()</code>	

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Table 152 – continued from previous page

`load_from_disk(analytics_file)`

`store_to_disk(analytics_folder)`

`to_api()`

classmethod `from_dict(data: dict[str, Any]) → T`

For simplification, we can use directly `from_api` method, because all attributes follow the same attributes name convention, which is same for snake and camel case. The content attribute does not change (even if we put it inside client class).

`gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

class `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

Bases: `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogAnalyticsBase`

`__init__(id: str, title: str, content: dict[str, Any], description: str = None, tags: list[str] = None)`

Methods

`__init__(id, title, content[, description, tags])`

`from_api(entity)`

`from_dict(data)`

For simplification, we can use directly `from_api` method, because all attributes follow the same attributes name convention, which is same for snake and camel case.

`get_kwargs()`

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Table 153 – continued from previous page

<code>load_from_disk(analytics_file)</code>
<code>store_to_disk(analytics_folder)</code>
<code>to_api()</code>

classmethod `from_dict(data: dict[str, Any]) → T`

For simplification, we can use directly `from_api` method, because all attributes follow the same attributes name convention, which is same for snake and camel case. The content attribute does not change (even if we put it inside client class).

`gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

class `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeModel`

Bases: `gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogAnalyticsBase`

`__init__(id: str, title: str, content: dict[str, Any], description: str = None, tags: list[str] = None)`

Methods

<code>__init__(id, title, content[, description, tags])</code>	
<code>from_api(entity)</code>	
<code>from_dict(data)</code>	For simplification, we can use directly <code>from_api</code> method, because all attributes follow the same attributes name convention, which is same for snake and camel case.
<code>get_kwargs()</code>	

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Table 154 – continued from previous page

`load_from_disk(analytics_file)`

`store_to_disk(analytics_folder)`

`to_api()`

classmethod `from_dict(data: dict[str, Any]) → T`

For simplification, we can use directly `from_api` method, because all attributes follow the same attributes name convention, which is same for snake and camel case. The content attribute does not change (even if we put it inside client class).

gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model

Modules

`gooddata_sdk.catalog.workspace.
declarative_model.workspace.logical_model.
dataset`

`gooddata_sdk.catalog.workspace.
declarative_model.workspace.logical_model.
date_dataset`

`gooddata_sdk.catalog.workspace.
declarative_model.workspace.logical_model.
ldm`

gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset

Modules

`gooddata_sdk.catalog.workspace.
declarative_model.workspace.logical_model.
dataset.dataset`

gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset

Classes

`CatalogDataSourceTableIdentifier(id, ...)`

`CatalogDeclarativeAttribute(id, title, labels)`

`CatalogDeclarativeDataset(id, title, grain, ...)`

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Table 157 – continued from previous page

CatalogDeclarativeFact(id, title, source_column)

CatalogDeclarativeLabel(id, title, primary, ...)

CatalogDeclarativeReference(identifier, ...)

gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogDataSource

class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogD

Bases: object

__init__(id: str, data_source_id: str)

Methods

__init__(id, data_source_id)

from_api(entity)

to_api()

gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogDeclarative

class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogD

Bases: *gooddata_sdk.catalog.entity.CatalogTitleEntity*

__init__(id: str, title: str, labels: list[CatalogDeclarativeLabel], description: str = None, tags: list[str] = None)

Methods

`__init__(id, title, labels[, description, tags])`

`from_api(entity)`

`to_api()`

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogDeclarative`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogD`

Bases: `gooddata_sdk.catalog.entity.CatalogTitleEntity`

`__init__(id: str, title: str, grain: list[CatalogGrainIdentifier], references: list[CatalogDeclarativeReference], description: str = None, attributes: list[CatalogDeclarativeAttribute] = None, facts: list[CatalogDeclarativeFact] = None, data_source_table_id: CatalogDataSourceTableIdentifier = None, tags: list[str] = None)`

Methods

```
__init__(id, title, grain, references[, ...])
```

```
from_api(entity)
```

```
from_dict(data[, camel_case])
```

param data Data loaded for example from the file.

```
load_from_disk(dataset_file)
```

```
store_to_disk(datasets_folder)
```

```
to_api()
```

```
classmethod from_dict(data: dict[str, Any], camel_case: bool = True) → CatalogDeclarativeDataset
```

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns CatalogDeclarativeDataset object.

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogDeclarativeDataset`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogDeclarativeDataset`

Bases: `gooddata_sdk.catalog.entity.CatalogTitleEntity`

```
__init__(id: str, title: str, source_column: str, description: str = None, tags: list[str] = None)
```

Methods

```
__init__(id, title, source_column[, ...])
```

```
from_api(entity)
```

```
to_api()
```

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogDeclarative`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogD`

Bases: `gooddata_sdk.catalog.entity.CatalogTitleEntity`

```
__init__(id: str, title: str, primary: bool, source_column: str, description: str = None, tags: list[str] =
        None, value_type: str = None)
```

Methods

```
__init__(id, title, primary, source_column)
```

```
from_api(entity)
```

```
to_api()
```

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogDeclarative`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.dataset.dataset.CatalogD`

Bases: `object`

`__init__(identifier: CatalogReferenceIdentifier, multi_value: bool, source_columns: list[str])`

Methods

`__init__(identifier, multi_value, source_columns)`

`from_api(entity)`

`to_api()`

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.date_dataset`

Modules

`gooddata_sdk.catalog.workspace.
declarative_model.workspace.logical_model.
date_dataset.date_dataset`

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.date_dataset.date_dataset`

Classes

`CatalogDeclarativeDateDataset(id, title, ...)`

`CatalogGranularitiesFormatting(title_base, ...)`

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.date_dataset.date_dataset.Catalog`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.date_dataset.date_dataset`

Bases: `gooddata_sdk.catalog.entity.CatalogTitleEntity`

`__init__(id: str, title: str, granularities_formatting: CatalogGranularitiesFormatting, granularities: list[str], description: str = None, tags: list[str] = None)`

Methods

`__init__(id, title, ...[, description, tags])`

`from_api(entity)`

`from_dict(data[, camel_case])`

param data Data loaded for example from the file.

`load_from_disk(date_instance_file)`

`store_to_disk(date_instances_folder)`

`to_api()`

classmethod from_dict(data: dict[str, Any], camel_case: bool = True) → *CatalogDeclarativeDateDataset*

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns CatalogDeclarativeDateDataset object.

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.date_dataset.date_dataset.CatalogDeclarativeDateDataset`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.date_dataset.date_dataset.CatalogDeclarativeDateDataset`

Bases: object

`__init__(title_base: str, title_pattern: str)`

Methods

`__init__(title_base, title_pattern)`

`from_api(entity)`

`to_api()`

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.Idm`

Classes

`CatalogDeclarativeLdm`([datasets, date_instances])

`CatalogDeclarativeModel`([ldm])

`gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.Idm.CatalogDeclarativeLdm`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.Idm.CatalogDeclarativeLdm`

Bases: object

`__init__`(datasets: list[CatalogDeclarativeDataset] = None, date_instances:
list[CatalogDeclarativeDateDataset] = None)

Methods

`__init__`([datasets, date_instances])

`from_api`(entity)

`get_datasets_folder`(ldm_folder)

`get_date_instances_folder`(ldm_folder)

`get_ldm_folder`(workspace_folder)

`load_from_disk`(workspace_folder)

`store_to_disk`(workspace_folder)

`to_api`()

gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.ldm.CatalogDeclarativeModel

```
class gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.ldm.CatalogDeclarativeModel
```

Bases: object

```
__init__(ldm: Optional[gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.ldm.CatalogDeclarativeLdm] = None)
```

Methods

```
__init__([ldm])
```

```
from_api(entity)
```

```
from_dict(data[, camel_case])
```

param data Data loaded for example from the file.

```
load_from_disk(workspace_folder)
```

```
modify_mapped_data_source(data_source_mapping)
```

```
store_to_disk(workspace_folder)
```

```
to_api()
```

```
classmethod from_dict(data: dict[str, Any], camel_case: bool = True) → CatalogDeclarativeModel
```

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns CatalogDeclarativeModel object.

`gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace`

Classes

CatalogDeclarativeWorkspace(id, name[, ...])

CatalogDeclarativeWorkspaceDataFilter(id, ...)

CatalogDeclarativeWorkspaceDataFilterSetting(id,
...)

CatalogDeclarativeWorkspaceModel([ldm, ...])

CatalogDeclarativeWorkspaces(workspaces, ...)

`gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspace`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspace(`

Bases: `gooddata_sdk.catalog.entity.CatalogNameEntity`

```
__init__(id: str, name: str, compute_client: str = None, model: CatalogDeclarativeWorkspaceModel =
    None, parent: CatalogWorkspaceIdentifier = None, permissions:
    list[CatalogDeclarativeSingleWorkspacePermission] = None, hierarchy_permissions:
    list[CatalogDeclarativeWorkspaceHierarchyPermission] = None)
```

Methods

```
__init__(id, name[, compute_client, model, ...])
```

```
from_api(entity)
```

```
from_dict(data[, camel_case])
```

param data Data loaded for example from the file.

```
load_from_disk(workspaces_folder,  
workspace_id)
```

```
store_to_disk(workspaces_folder)
```

```
to_api([include_nested_structures])
```

```
classmethod from_dict(data: dict[str, Any], camel_case: bool = True) → CatalogDeclarativeWorkspace
```

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns CatalogDeclarativeWorkspace object.

`gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaceDataFilter`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaceD`

Bases: `object`

`__init__(id: str, title: str, column_name: str, workspace_data_filter_settings: list[CatalogDeclarativeWorkspaceDataFilterSetting], description: str = None, workspace: CatalogWorkspaceIdentifier = None)`

Methods

`__init__(id, title, column_name, ...[, ...])`

`from_api(entity)`

`from_dict(data[, camel_case])`

param data Data loaded for example from the file.

`load_from_disk(workspaces_data_filter_file)`

`store_to_disk(workspaces_data_filters_folder)`

`to_api()`

```
classmethod from_dict(data: dict[str, Any], camel_case: bool = True) →
    CatalogDeclarativeWorkspaceDataFilter
```

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns CatalogDeclarativeWorkspaceDataFilter object.

`gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaceDataFilter`

`class gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaceDataFilter`

Bases: `gooddata_sdk.catalog.entity.CatalogTitleEntity`

```
__init__(id: str, title: str, filter_values: list[str], workspace: CatalogWorkspaceIdentifier, description: str =
    None)
```

Methods

```
__init__(id, title, filter_values, workspace)
```

```
from_api(entity)
```

```
to_api()
```

gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaceModel

class gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaceModel

Bases: object

__init__(ldm: Optional[gooddata_sdk.catalog.workspace.declarative_model.workspace.logical_model.ldm.CatalogDeclarativeLdm] = None, analytics: Optional[gooddata_sdk.catalog.workspace.declarative_model.workspace.analytics_model.analytics_model.CatalogDeclarativeAnalyticsModel] = None)

Methods

__init__([ldm, analytics])

from_api(entity)

load_from_disk(workspace_folder)

store_to_disk(workspace_folder)

to_api()

gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaces

class gooddata_sdk.catalog.workspace.declarative_model.workspace.workspace.CatalogDeclarativeWorkspaces

Bases: object

__init__(workspaces: list[CatalogDeclarativeWorkspace], workspace_data_filters: list[CatalogDeclarativeWorkspaceDataFilter])

Methods

`__init__(workspaces, workspace_data_filters)`

`from_api(entity)`

`from_dict(data[, camel_case])`

param data Data loaded for example from the file.

`load_from_disk(layout_organization_folder)`

`store_to_disk(layout_organization_folder)`

`to_api()`

`workspace_data_filters_folder(...)`

`workspaces_folder(layout_organization_folder)`

classmethod `from_dict(data: dict[str, Any], camel_case: bool = True) → CatalogDeclarativeWorkspaces`

Parameters

- **data** – Data loaded for example from the file.
- **camel_case** – True if the variable names in the input data are serialized names as specified in the OpenAPI document. False if the variables names in the input data are python variable names in PEP-8 snake case.

Returns *CatalogDeclarativeWorkspaces* object.

`gooddata_sdk.catalog.workspace.entity_model`

Modules

`gooddata_sdk.catalog.workspace.
entity_model.content_objects`

`gooddata_sdk.catalog.workspace.
entity_model.workspace`

gooddata_sdk.catalog.workspace.entity_model.content_objects**Modules**

`gooddata_sdk.catalog.workspace.`
`entity_model.content_objects.dataset`

`gooddata_sdk.catalog.workspace.`
`entity_model.content_objects.metric`

gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset**Classes**

`CatalogAttribute(entity, labels)`

`CatalogDataset(entity, attributes, facts)`

`CatalogFact(entity)`

`CatalogLabel(entity)`

gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogAttribute

```
class gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogAttribute(entity: dict[str, Any], labels: list[CatalogLabel])
    Bases: gooddata_sdk.catalog.entity.CatalogEntity
    __init__(entity: dict[str, Any], labels: list[CatalogLabel]) → None
```

Methods

`__init__(entity, labels)`

`as_computable()`

`find_label(id_obj)`

`primary_label()`

Attributes

dataset
description
granularity
id
labels
obj_id
title
type

gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogDataset

```
class gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogDataset(entity:
dict[str,
Any],
at-
tributes:
list[CatalogAttribute],
facts:
list[CatalogFact])
```

Bases: *gooddata_sdk.catalog.entity.CatalogEntity*

__init__(entity: dict[str, Any], attributes: list[CatalogAttribute], facts: list[CatalogFact]) → None

Methods

__init__ (entity, attributes, facts)	
filter_dataset (valid_objects)	Filters dataset so that it contains only attributes and facts that are part of the provided valid objects structure.
find_label_attribute (id_obj)	

Attributes

attributes

data_type

description

facts

id

obj_id

title

type

filter_dataset(*valid_objects: Dict[str, Set[str]]*) → Optional[*gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogDataset*]
 Filters dataset so that it contains only attributes and facts that are part of the provided valid objects structure.

Parameters **valid_objects** – mapping of object type to a set of valid object ids

Returns CatalogDataset containing only valid attributes and facts; None if all of the attributes and facts were filtered out

gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogFact

class gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.**CatalogFact**(*entity: dict[str, Any]*)

Bases: *gooddata_sdk.catalog.entity.CatalogEntity*

__init__(*entity: dict[str, Any]*) → None

Methods

__init__(entity)

as_computable()

Attributes

description

id

obj_id

title

type

gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogLabel

class gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogLabel(*entity: dict[str, Any]*)

Bases: *gooddata_sdk.catalog.entity.CatalogEntity*

__init__(*entity: dict[str, Any]*) → None

Methods

__init__(entity)

as_computable()

Attributes

description

id

obj_id

primary

title

type

`gooddata_sdk.catalog.workspace.entity_model.content_objects.metric`

Classes

`CatalogMetric(entity)`

`gooddata_sdk.catalog.workspace.entity_model.content_objects.metric.CatalogMetric`

```
class gooddata_sdk.catalog.workspace.entity_model.content_objects.metric.CatalogMetric(entity: dict[str, Any])
```

Bases: `gooddata_sdk.catalog.entity.CatalogEntity`

`__init__(entity: dict[str, Any]) → None`

Methods

`__init__(entity)`

`as_computable()`

Attributes

`description`

`format`

`id`

`obj_id`

`title`

`type`

gooddata_sdk.catalog.workspace.entity_model.workspace

Classes

CatalogWorkspace(workspace_id, name[, parent_id])

gooddata_sdk.catalog.workspace.entity_model.workspace.CatalogWorkspace

class gooddata_sdk.catalog.workspace.entity_model.workspace.**CatalogWorkspace**(workspace_id: str, name: str, parent_id: Optional[str] = None)

Bases: *gooddata_sdk.catalog.entity.CatalogNameEntity*

__init__(workspace_id: str, name: str, parent_id: Optional[str] = None)

Methods

__init__(workspace_id, name[, parent_id])

from_api(entity)

to_api()

gooddata_sdk.catalog.workspace.model_container

Classes

CatalogWorkspaceContent(valid_obj_fun, ...)

gooddata_sdk.catalog.workspace.model_container.CatalogWorkspaceContent

class gooddata_sdk.catalog.workspace.model_container.**CatalogWorkspaceContent**(valid_obj_fun: func-tools.partial[dict[str, set[str]]], datasets: list[CatalogDataset], metrics: list[CatalogMetric])

Bases: object

__init__(valid_obj_fun: func-tools.partial[dict[str, set[str]]], datasets: list[CatalogDataset], metrics: list[CatalogMetric]) → None

Methods

<code>__init__(valid_obj_fun, datasets, metrics)</code>	
<code>catalog_with_valid_objects(ctx)</code>	Returns a new instance of catalog which contains only those datasets (attributes and facts) that are valid in the provided context.
<code>create_workspace_content_catalog(...)</code>	
<code>find_label_attribute(id_obj)</code>	Get attribute by label id.
<code>get_dataset(dataset_id)</code>	Gets dataset by id.
<code>get_metric(metric_id)</code>	Gets metric by id.

Attributes

<code>datasets</code>
<code>metrics</code>

catalog_with_valid_objects(*ctx*: *Union[gooddata_sdk.compute.model.attribute.Attribute, gooddata_sdk.compute.model.metric.Metric, gooddata_sdk.compute.model.base.Filter, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogLabel, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogFact, gooddata_sdk.catalog.workspace.entity_model.content_objects.metric.CatalogMetric, List[Union[gooddata_sdk.compute.model.attribute.Attribute, gooddata_sdk.compute.model.metric.Metric, gooddata_sdk.compute.model.base.Filter, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogLabel, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogFact, gooddata_sdk.catalog.workspace.entity_model.content_objects.metric.CatalogMetric]], gooddata_sdk.compute.model.execution.ExecutionDefinition])* → *gooddata_sdk.catalog.workspace.model_container.CatalogWorkspaceContent*

Returns a new instance of catalog which contains only those datasets (attributes and facts) that are valid in the provided context. The context is composed of one more more entities of the semantic model and the filtered catalog will contain only those entities that can be safely added on top of that existing context.

Parameters **ctx** – existing context. you can specify context in one of the following ways: - single item or list of items from the execution model - single item or list of items from catalog model; catalog fact, label or metric may be added - the entire execution definition that is used to compute analytics

Returns

find_label_attribute(*id_obj*: Union[str, gooddata_sdk.compute.model.base.ObjId, Dict[str, Dict[str, str]], Dict[str, str]]) → Optional[gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogAttribute]

Get attribute by label id.

get_dataset(*dataset_id*: Union[str, gooddata_sdk.compute.model.base.ObjId]) → Optional[gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogDataset]

Gets dataset by id. The id can be either an instance of ObjId or string containing serialized ObjId ('dataset/some.dataset.id') or contain just the id part ('some.dataset.id').

Parameters **dataset_id** – fully qualified dataset entity id (type/id) or just the identifier of dataset entity

Returns instance of CatalogDataset or None if no such dataset in catalog

:rtype CatalogDataset

get_metric(*metric_id*: Union[str, gooddata_sdk.compute.model.base.ObjId]) → Optional[gooddata_sdk.catalog.workspace.entity_model.content_objects.metric.CatalogMetric]

Gets metric by id. The id can be either an instance of ObjId or string containing serialized ObjId ('metric/some.metric.id') or contain just the id part ('some.metric.id').

Parameters **metric_id** – fully qualified metric entity id (type/id) or just the identifier of metric entity

Returns instance of CatalogMetric or None if no such metric in catalog

:rtype CatalogMetric

gooddata_sdk.catalog.workspace.service

Classes

CatalogWorkspaceContentService(*api_client*)

CatalogWorkspaceService(*api_client*)

gooddata_sdk.catalog.workspace.service.CatalogWorkspaceContentService

class gooddata_sdk.catalog.workspace.service.CatalogWorkspaceContentService(*api_client*: gooddata_sdk.client.GoodDataApiClient)

Bases: *gooddata_sdk.catalog.catalog_service_base.CatalogServiceBase*

__init__(*api_client*: gooddata_sdk.client.GoodDataApiClient) → None

Methods

<code>__init__(api_client)</code>	
<code>compute_valid_objects(workspace_id, ctx)</code>	Returns attributes, facts, and metrics which are valid to add to a context that already contains some entities from the semantic model.
<code>get_attributes_catalog(workspace_id)</code>	
<code>get_declarative_analytics_model(workspace_id)</code>	
<code>get_declarative_ldm(workspace_id)</code>	
<code>get_facts_catalog(workspace_id)</code>	
<code>get_full_catalog(workspace_id)</code>	Retrieves catalog for a workspace.
<code>get_labels_catalog(workspace_id)</code>	
<code>get_metrics_catalog(workspace_id)</code>	
<code>get_organization()</code>	
<code>layout_organization_folder(layout_root_path)</code>	
<code>layout_workspace_folder(workspace_id, ...)</code>	
<code>load_and_put_declarative_analytics_model(...)</code>	
<code>load_and_put_declarative_ldm(workspace_id[, ...])</code>	
<code>load_declarative_analytics_model(workspace_id)</code>	
<code>load_declarative_ldm(workspace_id[, ...])</code>	
<code>put_declarative_analytics_model(...)</code>	
<code>put_declarative_ldm(workspace_id, ldm[, ...])</code>	
<code>store_declarative_analytics_model(workspace_id)</code>	
<code>store_declarative_ldm(workspace_id[, ...])</code>	

Attributes

organization_id

compute_valid_objects(workspace_id: str, ctx: Union[gooddata_sdk.compute.model.attribute.Attribute, gooddata_sdk.compute.model.metric.Metric, gooddata_sdk.compute.model.base.Filter, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogLabel, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogFact, gooddata_sdk.catalog.workspace.entity_model.content_objects.metric.CatalogMetric, List[Union[gooddata_sdk.compute.model.attribute.Attribute, gooddata_sdk.compute.model.metric.Metric, gooddata_sdk.compute.model.base.Filter, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogLabel, gooddata_sdk.catalog.workspace.entity_model.content_objects.dataset.CatalogFact, gooddata_sdk.catalog.workspace.entity_model.content_objects.metric.CatalogMetric]], gooddata_sdk.compute.model.execution.ExecutionDefinition]) → Dict[str, Set[str]]

Returns attributes, facts, and metrics which are valid to add to a context that already contains some entities from the semantic model. The entities are typically used to compute analytics and come from the execution definition. You may, however, specify the entities through different layers of convenience.

Parameters

- **workspace_id** – workspace identifier
- **ctx** – items already in context. you can specify context in one of the following ways: - single item or list of items from the execution model - single item or list of items from catalog model; catalog fact, label or metric may be added - the entire execution definition that is used to compute analytics

Returns a dict of sets; type of available object is used as key in the dict, the value is a set containing id's of available items

get_full_catalog(workspace_id: str) → *gooddata_sdk.catalog.workspace.model_container.CatalogWorkspaceContent*

Retrieves catalog for a workspace. Catalog contains all data sets and metrics defined in that workspace.

Parameters **workspace_id** – workspace identifier

Returns

gooddata_sdk.catalog.workspace.service.CatalogWorkspaceService

class gooddata_sdk.catalog.workspace.service.CatalogWorkspaceService(*api_client*: gooddata_sdk.client.GoodDataApiClient)

Bases: *gooddata_sdk.catalog.catalog_service_base.CatalogServiceBase*

__init__(*api_client*: gooddata_sdk.client.GoodDataApiClient) → None

Methods

__init__(*api_client*)

create_or_update(workspace)

delete_workspace(workspace_id) This method is implemented according to our implementation of delete workspace, which returns HTTP 204 no matter if the workspace_id exists.

get_declarative_workspace(workspace_id)

get_declarative_workspaces()

get_organization()

get_workspace(workspace_id) Gets workspace content and returns it as Catalog-Workspace object.

layout_organization_folder(layout_root_path)

list_workspaces()

load_and_put_declarative_workspaces([...])

load_declarative_workspaces([layout_root_path])

put_declarative_workspace(workspace_id, ...)

put_declarative_workspaces(workspace)

store_declarative_workspaces([layout_root_path])

Attributes

organization_id

delete_workspace(*workspace_id*: str) → None

This method is implemented according to our implementation of delete workspace, which returns HTTP 204 no matter if the workspace_id exists.

get_workspace(workspace_id: str) →

gooddata_sdk.catalog.workspace.entity_model.workspace.CatalogWorkspace

Gets workspace content and returns it as CatalogWorkspace object. :param workspace_id: An input string parameter of workspace id. :return: CatalogWorkspace object containing structure of workspace.

4.2.2 gooddata_sdk.client

Module containing a class that provides access to metadata and afm services.

Classes

<i>GoodDataApiClient</i> (host, token[, ...])	Provide access to metadata and afm services.
---	--

gooddata_sdk.client.GoodDataApiClient

class gooddata_sdk.client.GoodDataApiClient(*host: str, token: str, custom_headers: Optional[dict[str, str]] = None, extra_user_agent: Optional[str] = None*)

Bases: object

Provide access to metadata and afm services.

__init__(*host: str, token: str, custom_headers: Optional[dict[str, str]] = None, extra_user_agent: Optional[str] = None*) → None

Take url, token for connecting to GoodData.CN.

HTTP requests made by this class may be enriched by *custom_headers* dict containing header names as keys and header values as dict values.

extra_user_agent is optional string to be added to default http User-Agent header. This takes precedence over *custom_headers* setting.

Methods

<i>__init__</i> (host, token[, custom_headers, ...])	Take url, token for connecting to GoodData.CN.
--	--

Attributes

afm_client

metadata_client

scan_client

4.2.3 gooddata_sdk.compute

Modules

gooddata_sdk.compute.model

gooddata_sdk.compute.service

gooddata_sdk.compute.model

Modules

gooddata_sdk.compute.model.attribute

gooddata_sdk.compute.model.base

gooddata_sdk.compute.model.execution

gooddata_sdk.compute.model.filter

gooddata_sdk.compute.model.metric

gooddata_sdk.compute.model.attribute

Classes

Attribute(local_id, label)

gooddata_sdk.compute.model.attribute.Attribute

class gooddata_sdk.compute.model.attribute.**Attribute**(local_id: str, label: Union[gooddata_sdk.compute.model.base.ObjId, str])

Bases: *gooddata_sdk.compute.model.base.ExecModelEntity*

__init__(local_id: str, label: Union[gooddata_sdk.compute.model.base.ObjId, str]) → None

Creates new attribute that can be used to slice or dice metric values during computation.

Parameters

- **local_id** – identifier of the attribute within the execution
- **label** – identifier of the label to use for slicing or dicing; specified either as ObjId or str containing the label id

Methods

<code>__init__(local_id, label)</code>	Creates new attribute that can be used to slice or dice metric values during computation.
--	---

<code>as_api_model()</code>

<code>has_same_label(other)</code>

Attributes

<code>label</code>

<code>local_id</code>

gooddata_sdk.compute.model.base

Classes

<code>ExecModelEntity()</code>

<code>Filter()</code>

<code>ObjId(id, type)</code>

gooddata_sdk.compute.model.base.ExecModelEntity

class gooddata_sdk.compute.model.base.ExecModelEntity

Bases: object

`__init__()` → None

Methods

<code>__init__()</code>

<code>as_api_model()</code>

gooddata_sdk.compute.model.base.Filter

class gooddata_sdk.compute.model.base.**Filter**
 Bases: *gooddata_sdk.compute.model.base.ExecModelEntity*
__init__() → None

Methods

__init__()

as_api_model()

is_noop()

Attributes

apply_on_result

gooddata_sdk.compute.model.base.ObjId

class gooddata_sdk.compute.model.base.**ObjId**(*id: str, type: str*)
 Bases: object
__init__(*id: str, type: str*) → None

Methods

__init__(id, type)

as_afm_id()

as_identifier()

Attributes

id

type

gooddata_sdk.compute.model.execution**Functions**

<code>compute_model_to_api_model([attributes, ...])</code>	Transforms categorized execution model entities (attributes, metrics, facts) into an API model that can be used for computations of data results or computations of object availability.
--	--

gooddata_sdk.compute.model.execution.compute_model_to_api_model

`gooddata_sdk.compute.model.execution.compute_model_to_api_model`(*attributes:*
Optional[list[Attribute]] = None,
metrics: Optional[list[Metric]]
= None, filters:
Optional[list[Filter]] = None)
→ models.AFM

Transforms categorized execution model entities (attributes, metrics, facts) into an API model that can be used for computations of data results or computations of object availability.

Parameters

- **attributes** – optionally specify list of attributes
- **metrics** – optionally specify list of metrics
- **filters** – optionally specify list of filters

Returns**Classes**

<code>ExecutionDefinition(attributes, metrics, ...)</code>
<code>ExecutionResponse(actions_api, workspace_id, ...)</code>
<code>ExecutionResult(result)</code>

gooddata_sdk.compute.model.execution.ExecutionDefinition

class `gooddata_sdk.compute.model.execution.ExecutionDefinition`(*attributes:*
Optional[list[Attribute]], metrics:
Optional[list[Metric]], filters:
Optional[list[Filter]], dimensions:
list[Optional[list[str]]])

Bases: object

__init__(*attributes: Optional[list[Attribute]], metrics: Optional[list[Metric]], filters: Optional[list[Filter]], dimensions: list[Optional[list[str]]])* → None

Methods

`__init__(attributes, metrics, filters, ...)`

`as_api_model()`

`has_attributes()`

`has_filters()`

`has_metrics()`

`is_one_dim()`

`is_two_dim()`

Attributes

`attributes`

`dimensions`

`filters`

`metrics`

`gooddata_sdk.compute.model.execution.ExecutionResponse`

```

class gooddata_sdk.compute.model.execution.ExecutionResponse(actions_api: good-
    data_afm_client.api.actions_api.ActionsApi,
    workspace_id: str, exec_def: good-
    data_sdk.compute.model.execution.ExecutionDefinition,
    response: good-
    data_afm_client.model.afm_execution_response.AfmExecutionResponse)

Bases: object

__init__(actions_api: gooddata_afm_client.api.actions_api.ActionsApi, workspace_id: str, exec_def:
    gooddata_sdk.compute.model.execution.ExecutionDefinition, response:
    gooddata_afm_client.model.afm_execution_response.AfmExecutionResponse)

```

Methods

`__init__(actions_api, workspace_id, ...)`

`read_result(limit[, offset])` Reads from the execution result.

Attributes

`exec_def`

`result_id`

`workspace_id`

read_result(*limit: Union[int, list[int]], offset: Union[None, int, list[int]] = None*) → *ExecutionResult*
Reads from the execution result. :param offset: :param limit: :return:

`gooddata_sdk.compute.model.execution.ExecutionResult`

class `gooddata_sdk.compute.model.execution.ExecutionResult`(*result: good-*
data_afm_client.model.execution_result.ExecutionResult)

Bases: `object`

__init__(*result: gooddata_afm_client.model.execution_result.ExecutionResult*)

Methods

`__init__(result)`

`get_all_header_values(dim, header_idx)`

`is_complete([dim])`

`next_page_start([dim])`

Attributes

`data`

`grand_totals`

`headers`

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<code>paging</code>
<code>paging_count</code>
<code>paging_offset</code>
<code>paging_total</code>

gooddata_sdk.compute.model.filter**Classes**

<code>AbsoluteDateFilter(dataset, from_date, to_date)</code>	
<code>AllTimeFilter()</code>	Filter that is semantically equivalent to absent filter.
<code>AttributeFilter(label[, values])</code>	
<code>MetricValueFilter(metric, operator, values)</code>	
<code>NegativeAttributeFilter(label[, values])</code>	
<code>PositiveAttributeFilter(label[, values])</code>	
<code>RankingFilter(metrics, operator, value, ...)</code>	
<code>RelativeDateFilter(dataset, granularity, ...)</code>	

gooddata_sdk.compute.model.filter.AbsoluteDateFilter

class `gooddata_sdk.compute.model.filter.AbsoluteDateFilter`(*dataset*: `gooddata_sdk.compute.model.base.ObjId`,
from_date: `str`, *to_date*: `str`)

Bases: `gooddata_sdk.compute.model.base.Filter`

__init__(*dataset*: `gooddata_sdk.compute.model.base.ObjId`, *from_date*: `str`, *to_date*: `str`) → `None`

Methods

<code>__init__(dataset, from_date, to_date)</code>
<code>as_api_model()</code>
<code>is_noop()</code>

Attributes

`apply_on_result`

`dataset`

`from_date`

`to_date`

`gooddata_sdk.compute.model.filter.AllTimeFilter`

class `gooddata_sdk.compute.model.filter.AllTimeFilter`

Bases: `gooddata_sdk.compute.model.base.Filter`

Filter that is semantically equivalent to absent filter.

This filter exists because ‘All time filter’ retrieved from GoodData.CN is non-standard as it does not have *from* and *to* fields; this is also the reason why `as_api_model` method is not implemented - it would lead to invalid object.

The main feature of this filter is noop.

`__init__()` → None

Methods

`__init__()`

`as_api_model()`

`is_noop()`

Attributes

`apply_on_result`

gooddata_sdk.compute.model.filter.AttributeFilter

```
class gooddata_sdk.compute.model.filter.AttributeFilter(label: Union[ObjId, str, Attribute], values:
                                                    list[str] = None)
```

Bases: `gooddata_sdk.compute.model.base.Filter`

```
__init__(label: Union[ObjId, str, Attribute], values: list[str] = None) → None
```

Methods

```
__init__(label[, values])
```

```
as_api_model()
```

```
is_noop()
```

Attributes

```
apply_on_result
```

```
label
```

```
values
```

gooddata_sdk.compute.model.filter.MetricValueFilter

```
class gooddata_sdk.compute.model.filter.MetricValueFilter(metric: Union[ObjId, str, Metric],
                                                         operator: str, values: Union[float, int,
                                                         tuple[float, float]], treat_nulls_as:
                                                         Union[float, None] = None)
```

Bases: `gooddata_sdk.compute.model.base.Filter`

```
__init__(metric: Union[ObjId, str, Metric], operator: str, values: Union[float, int, tuple[float, float]],
          treat_nulls_as: Union[float, None] = None) → None
```

Methods

```
__init__(metric, operator, values[, ...])
```

```
as_api_model()
```

```
is_noop()
```

Attributes

`apply_on_result`

`metric`

`operator`

`treat_nulls_as`

`values`

`gooddata_sdk.compute.model.filter.NegativeAttributeFilter`

```
class gooddata_sdk.compute.model.filter.NegativeAttributeFilter(label: Union[ObjId, str,  
                                                                    Attribute], values: list[str] =  
                                                                    None)
```

Bases: `gooddata_sdk.compute.model.filter.AttributeFilter`

`__init__`(label: Union[ObjId, str, Attribute], values: list[str] = None) → None

Methods

`__init__`(label[, values])

`as_api_model`()

`is_noop`()

Attributes

`apply_on_result`

`label`

`values`

gooddata_sdk.compute.model.filter.PositiveAttributeFilter

```
class gooddata_sdk.compute.model.filter.PositiveAttributeFilter(label: Union[ObjId, str,
                                                                    Attribute], values: list[str] =
                                                                    None)
```

Bases: [gooddata_sdk.compute.model.filter.AttributeFilter](#)

```
__init__(label: Union[ObjId, str, Attribute], values: list[str] = None) → None
```

Methods

```
__init__(label[, values])
```

```
as_api_model()
```

```
is_noop()
```

Attributes

```
apply_on_result
```

```
label
```

```
values
```

gooddata_sdk.compute.model.filter.RankingFilter

```
class gooddata_sdk.compute.model.filter.RankingFilter(metrics: list[Union[ObjId, Metric, str]],
                                                       operator: str, value: int, dimensionality:
                                                       Optional[list[Union[str, ObjId, Attribute,
                                                       Metric]]])
```

Bases: [gooddata_sdk.compute.model.base.Filter](#)

```
__init__(metrics: list[Union[ObjId, Metric, str]], operator: str, value: int, dimensionality:
        Optional[list[Union[str, ObjId, Attribute, Metric]]]) → None
```

Methods

```
__init__(metrics, operator, value, ...)
```

```
as_api_model()
```

```
is_noop()
```

Attributes

`apply_on_result`

`dimensionality`

`metrics`

`operator`

`value`

`gooddata_sdk.compute.model.filter.RelativeDateFilter`

```
class gooddata_sdk.compute.model.filter.RelativeDateFilter(dataset: good-  
data_sdk.compute.model.base.ObjId,  
granularity: str, from_shift: int,  
to_shift: int)
```

Bases: `gooddata_sdk.compute.model.base.Filter`

```
__init__(dataset: gooddata_sdk.compute.model.base.ObjId, granularity: str, from_shift: int, to_shift: int)  
    → None
```

Methods

`__init__`(`dataset`, `granularity`, `from_shift`, ...)

`as_api_model`()

`is_noop`()

Attributes

`apply_on_result`

`dataset`

`from_shift`

`granularity`

`to_shift`

gooddata_sdk.compute.model.metric**Classes**

ArithmeticMetric(local_id, operator, operands)

Metric(local_id)

PopDate(attribute, periods_ago)

PopDateDataset(dataset, periods_ago)

PopDateMetric(local_id, metric, date_attributes)

PopDateSetMetric(local_id, metric, date_datasets)

SimpleMetric(local_id, item[, aggregation, ...])

gooddata_sdk.compute.model.metric.ArithmeticMetric

```
class gooddata_sdk.compute.model.metric.ArithmeticMetric(local_id: str, operator: str, operands:
                                                         list[Union[str, Metric]])
```

Bases: *gooddata_sdk.compute.model.metric.Metric*

__init__(local_id: str, operator: str, operands: list[Union[str, Metric]]) → None

Methods

__init__(local_id, operator, operands)

as_api_model()

Attributes

local_id

operand_local_ids

operator

gooddata_sdk.compute.model.metric.Metric

```
class gooddata_sdk.compute.model.metric.Metric(local_id: str)
    Bases: gooddata_sdk.compute.model.base.ExecModelEntity
    __init__(local_id: str) → None
```

Methods

```
__init__(local_id)
```

```
as_api_model()
```

Attributes

```
local_id
```

gooddata_sdk.compute.model.metric.PopDate

```
class gooddata_sdk.compute.model.metric.PopDate(attribute:
    Union[gooddata_sdk.compute.model.base.ObjId,
    gooddata_sdk.compute.model.attribute.Attribute],
    periods_ago: int)

    Bases: object
    __init__(attribute: Union[gooddata_sdk.compute.model.base.ObjId,
    gooddata_sdk.compute.model.attribute.Attribute], periods_ago: int) → None
```

Methods

```
__init__(attribute, periods_ago)
```

```
as_api_model()
```

Attributes

```
attribute
```

```
periods_ago
```

gooddata_sdk.compute.model.metric.PopDateDataset

```
class gooddata_sdk.compute.model.metric.PopDateDataset(dataset:
    Union[gooddata_sdk.compute.model.base.ObjId,
    str], periods_ago: int)
    Bases: object
    __init__(dataset: Union[gooddata_sdk.compute.model.base.ObjId, str], periods_ago: int) → None
```

Methods

```
__init__(dataset, periods_ago)
```

```
as_api_model()
```

Attributes

```
dataset
```

```
periods_ago
```

gooddata_sdk.compute.model.metric.PopDateMetric

```
class gooddata_sdk.compute.model.metric.PopDateMetric(local_id: str, metric: Union[str, Metric],
    date_attributes: list[PopDate])
    Bases: gooddata_sdk.compute.model.metric.Metric
    __init__(local_id: str, metric: Union[str, Metric], date_attributes: list[PopDate]) → None
```

Methods

```
__init__(local_id, metric, date_attributes)
```

```
as_api_model()
```

Attributes

date_attributes

local_id

metric_local_id

gooddata_sdk.compute.model.metric.PopDatesetMetric

```
class gooddata_sdk.compute.model.metric.PopDatesetMetric(local_id: str, metric: Union[str, Metric],  
                                                         date_datasets: list[PopDateDataset])
```

Bases: *gooddata_sdk.compute.model.metric.Metric*

__init__(local_id: str, metric: Union[str, Metric], date_datasets: list[PopDateDataset]) → None

Methods

__init__(local_id, metric, date_datasets)

as_api_model()

Attributes

date_datasets

local_id

metric_local_id

gooddata_sdk.compute.model.metric.SimpleMetric

```
class gooddata_sdk.compute.model.metric.SimpleMetric(local_id: str, item: ObjId, aggregation:  
                                                     Optional[str] = None, compute_ratio: bool =  
                                                     False, filters: list[Filter] = None)
```

Bases: *gooddata_sdk.compute.model.metric.Metric*

__init__(local_id: str, item: ObjId, aggregation: Optional[str] = None, compute_ratio: bool = False,
 filters: list[Filter] = None) → None

Methods

`__init__(local_id, item[, aggregation, ...])`

`as_api_model()`

Attributes

`aggregation`

`compute_ratio`

`filters`

`item`

`local_id`

gooddata_sdk.compute.service

Classes

<code>ComputeService(api_client)</code>	Compute service drives computation of analytics for a GoodData.CN workspaces.
---	---

gooddata_sdk.compute.service.ComputeService

class gooddata_sdk.compute.service.**ComputeService**(*api_client*:
gooddata_sdk.client.GoodDataApiClient)

Bases: object

Compute service drives computation of analytics for a GoodData.CN workspaces. The prescription of what to compute is encapsulated by the ExecutionDefinition which consists of attributes, metrics, filters and definition of dimensions that influence how to organize the data in the result.

`__init__(api_client: gooddata_sdk.client.GoodDataApiClient)`

Methods

`__init__(api_client)`

<code>for_exec_def(workspace_id, exec_def)</code>	Starts computation in GoodData.CN workspace, using the provided execution definition.
---	---

for_exec_def(workspace_id: str, exec_def: gooddata_sdk.compute.model.execution.ExecutionDefinition) → gooddata_sdk.compute.model.execution.ExecutionResponse

Starts computation in GoodData.CN workspace, using the provided execution definition.

Parameters

- **workspace_id** – workspace identifier
- **exec_def** – execution definition - this prescribes what to calculate, how to place labels and metric values into dimensions

Returns

4.2.4 gooddata_sdk.insight

Classes

`Insight(from_vis_obj[, side_loads])`

`InsightAttribute(attribute)`

`InsightBucket(bucket)`

`InsightFilter(f)`

<code>InsightMetric(metric)</code>	Represents metric placed on an insight.
------------------------------------	---

<code>InsightService(api_client)</code>	Insight Service allows retrieval of insights from a GD.CN workspace.
---	--

gooddata_sdk.insight.Insight

class gooddata_sdk.insight.Insight(from_vis_obj: dict[str, Any], side_loads: Optional[SideLoads] = None)

Bases: object

__init__(from_vis_obj: dict[str, Any], side_loads: Optional[SideLoads] = None) → None

Methods

`__init__(from_vis_obj[, side_loads])`

`get_metadata(id_obj)`

Attributes

`are_relations_valid`

`attributes`

`buckets`

`description`

`filters`

`id`

`metrics`

`properties`

`side_loads`

`sorts`

`title`

`vis_url`

`gooddata_sdk.insight.InsightAttribute`

```
class gooddata_sdk.insight.InsightAttribute(attribute: dict[str, Any])
```

```
    Bases: object
```

```
    __init__(attribute: dict[str, Any]) → None
```

Methods

`__init__(attribute)`

`as_computable()`

Attributes

`alias`

`label`

`label_id`

`local_id`

`gooddata_sdk.insight.InsightBucket`

class `gooddata_sdk.insight.InsightBucket`(*bucket: dict[str, Any]*)

Bases: `object`

`__init__(bucket: dict[str, Any])` → `None`

Methods

`__init__(bucket)`

Attributes

`attributes`

`items`

`local_id`

`metrics`

gooddata_sdk.insight.InsightFilter

```
class gooddata_sdk.insight.InsightFilter(f: dict[str, Any])
```

Bases: object

```
__init__(f: dict[str, Any]) → None
```

Methods

```
__init__(f)
```

```
as_computable()
```

gooddata_sdk.insight.InsightMetric

```
class gooddata_sdk.insight.InsightMetric(metric: dict[str, Any])
```

Bases: object

Represents metric placed on an insight.

Note: this has different shape than object passed to execution.

```
__init__(metric: dict[str, Any]) → None
```

Methods

```
__init__(metric)
```

```
as_computable()
```

Attributes

```
alias
```

```
format
```

```
is_time_comparison
```

```
item
```

```
item_id
```

```
local_id
```

```
time_comparison_master
```

If this is a time comparison metric, return local_id of the master metric from which it is derived.

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title

property time_comparison_master: Optional[str]

If this is a time comparison metric, return local_id of the master metric from which it is derived. :return: local_id of master metric, None if not a time comparison metric

gooddata_sdk.insight.InsightService**class** gooddata_sdk.insight.InsightService(*api_client*: gooddata_sdk.client.GoodDataApiClient)

Bases: object

Insight Service allows retrieval of insights from a GD.CN workspace. The insights are returned as instances of Insight which allows convenient introspection and necessary functions to convert the insight into a form where it can be sent for computation.

Note: the insights are created using GD.CN Analytical Designer or using GoodData.UI SDK. They are stored as visualization objects with a free-form body. This body is specific for AD & SDK. The Insight wrapper exists to take care of these discrepancies.

__init__(*api_client*: gooddata_sdk.client.GoodDataApiClient) → None**Methods**

__init__(*api_client*)

get_insight(*workspace_id*, *insight_id*) Gets a single insight from a workspace.

get_insights(*workspace_id*) Gets all insights for a workspace.

get_insight(*workspace_id*: str, *insight_id*: str) → gooddata_sdk.insight.Insight

Gets a single insight from a workspace.

Parameters

- **workspace_id** – identifier of workspace to load insight from
- **insight_id** – identifier of the insight

Returns single insight; the insight will contain sideloaded metadata about the entities it references

Return type *Insight***get_insights**(*workspace_id*: str) → list[*Insight*]

Gets all insights for a workspace. The insights will contain side loaded metadata for all execution entities that they reference.

Parameters **workspace_id** – identifier of workspace to load insights from

Returns all available insights, each insight will contain side loaded metadata about the entities it references

4.2.5 gooddata_sdk.sdk

Classes

<code>GoodDataSdk</code> (client)	Top-level class that wraps all the functionality together.
-----------------------------------	--

gooddata_sdk.sdk.GoodDataSdk

class gooddata_sdk.sdk.GoodDataSdk(client: gooddata_sdk.client.GoodDataApiClient)

Bases: object

Top-level class that wraps all the functionality together.

__init__(client: gooddata_sdk.client.GoodDataApiClient) → None

Take instance of GoodDataApiClient and return new GoodDataSdk instance.

Useful when customized GoodDataApiClient is needed. Usually users should use *GoodDataSdk.create* classmethod.

Methods

<code>__init__</code> (client)	Take instance of GoodDataApiClient and return new GoodDataSdk instance.
<code>create</code> (host_, token_[, extra_user_agent_])	Create common GoodDataApiClient and return new GoodDataSdk instance.

Attributes

catalog_data_source
catalog_organization
catalog_workspace
catalog_workspace_content
compute
insights
support
tables

classmethod create(host_: str, token_: str, extra_user_agent_: Optional[str] = None, **custom_headers_: Optional[str]) → gooddata_sdk.sdk.GoodDataSdk

Create common GoodDataApiClient and return new GoodDataSdk instance. Custom headers are filtered. Headers with None value are removed. It simplifies usage because headers can be created directly from optional values.

This is preferred way of creating GoodDataSdk, when no tweaks are needed.

4.2.6 gooddata_sdk.support

Classes

SupportService(api_client)

gooddata_sdk.support.SupportService

class gooddata_sdk.support.**SupportService**(api_client: gooddata_sdk.client.GoodDataApiClient)

Bases: object

__init__(api_client: gooddata_sdk.client.GoodDataApiClient) → None

Methods

__init__(api_client)

<i>wait_till_available</i> (timeout[, sleep_time])	Wait till GD.CN service is available. When timeout is:
--	--

Attributes

<i>is_available</i>	Checks if GD.CN is available.
---------------------	-------------------------------

property is_available: bool

Checks if GD.CN is available. Can raise exceptions in case of authentication or authorization failure.
:return: True - available, False - not available

wait_till_available(timeout: int, sleep_time: float = 2.0) → None

Wait till GD.CN service is available. When timeout is:

- > 0 exception is raised after given number of seconds.
- = 0 exception is raised whe service is not available immediately
- < 0 no timeout

Method propagates is_available exceptions. :param timeout: seconds to wait to service to be available (see method description for details) :param sleep_time: seconds to wait between GD.CN availability tests

4.2.7 gooddata_sdk.table

Classes

<code>ExecutionTable(response, first_page)</code>	Represents execution result as a table.
<code>TableService(api_client)</code>	The TableService provides a convenient way to drive computations and access the results in a tabular fashion.

gooddata_sdk.table.ExecutionTable

```
class gooddata_sdk.table.ExecutionTable(response:
                                         gooddata_sdk.compute.model.execution.ExecutionResponse,
                                         first_page:
                                         gooddata_sdk.compute.model.execution.ExecutionResult)
```

Bases: object

Represents execution result as a table. This is a convenience wrapper for executions constructed using the following convention:

- all attributes are in the first dimension
- all metrics are in the second dimension
- if the execution is attribute- or metric-less, then there is always single dimension

The mapping to rows is then as follows:

- both attributes + metrics are on the execution = iteration over first dimension; as many rows as total records in the first dimension (`paging.total[0]`)
- just attributes = iteration over just headers in first dimension; as many rows as total records in the first dimension (`paging.total[0]`)
- just metrics = single row, all metrics values returned in one row

```
__init__(response: gooddata_sdk.compute.model.execution.ExecutionResponse, first_page:
          gooddata_sdk.compute.model.execution.ExecutionResult) → None
```

Methods

<code>__init__(response, first_page)</code>	
<code>read_all()</code>	Returns a generator that will be yielding execution result as rows.

Attributes

attributes	
<code>column_ids</code>	Returns column identifiers.
<code>column_metadata</code>	Returns mapping of column identifier to definition of either attribute whose elements will be in that column or metric whose value will be calculated in that column.
metrics	

property `column_ids`: `list[str]`

Returns column identifiers. Each row will be a mapping of column identifier to column data.

Returns

property `column_metadata`: `dict[str, Union[Attribute, Metric]]`

Returns mapping of column identifier to definition of either attribute whose elements will be in that column or metric whose value will be calculated in that column. :return:

read_all() → `Generator[dict[str, Any], None, None]`

Returns a generator that will be yielding execution result as rows. Each row is a dict() mapping column identifier to value of that column.

Returns generator yielding dict() representing rows of the table

`gooddata_sdk.table.TableService`

class `gooddata_sdk.table.TableService`(*api_client*: `gooddata_sdk.client.GoodDataApiClient`)

Bases: `object`

The TableService provides a convenient way to drive computations and access the results in a tabular fashion.

Compared to the ComputeService, with this one here you do not have to worry about the layout of the result and do not have to have to work with execution response, access the data using paging.

The ExecutionTable returned by the TableService allows you to iterate over the rows of the calculated data.

__init__(*api_client*: `gooddata_sdk.client.GoodDataApiClient`) → `None`

Methods

`__init__`(*api_client*)

`for_insight`(*workspace_id*, *insight*)

`for_items`(*workspace_id*, *items*[, *filters*])

4.2.8 gooddata_sdk.type_converter

Functions

<i>build_stores()</i>	Initialize both AttributeConverterStore and DBTypeConverterStore with Convertors.
-----------------------	---

gooddata_sdk.type_converter.build_stores

`gooddata_sdk.type_converter.build_stores()` → None

Initialize both AttributeConverterStore and DBTypeConverterStore with Convertors.

Classes

<i>AttributeConverterStore()</i>	Store for conversion of attributes
<i>Converter()</i>	Base Converter class.
<i>ConverterRegistryStore()</i>	Class store TypeConverterRegistry instances for each registered type.
<i>DBTypeConverterStore()</i>	Store for conversion of database types
<i>DateConverter()</i>	
<i>DatetimeConverter()</i>	
<i>IntegerConverter()</i>	
<i>StringConverter()</i>	
<i>TypeConverterRegistry(type_name)</i>	Class stores converters for given type with ability to distinguish converters based on sub-type granularity.

gooddata_sdk.type_converter.AttributeConverterStore

class `gooddata_sdk.type_converter.AttributeConverterStore`

Bases: `gooddata_sdk.type_converter.ConverterRegistryStore`

Store for conversion of attributes

`__init__()`

Methods

<code>__init__()</code>	
<i>find_converter(type_name[, sub_type])</i>	Find Converter for given type and sub type.
<i>register(type_name, class_converter[, sub_types])</i>	Register Converter instance created from provided Converter class to given type and list of sub types.
<i>reset()</i>	Reset converters setup

classmethod **find_converter**(*type_name: str, sub_type: Optional[str] = None*) →
gooddata_sdk.type_converter.Converter

Find Converter for given type and sub type. :param type_name: type name :param sub_type: sub type name

classmethod **register**(*type_name: str, class_converter: Type[Converter], sub_types: Optional[list[str]] = None*) → None

Register Converter instance created from provided Converter class to given type and list of sub types. When sub types are not provided, converter is registered as the default one for given type. :param type_name: type name :param class_converter: Converter class :param sub_types: list of sub types or None (default type Converter)

classmethod **reset**() → None

Reset converters setup

gooddata_sdk.type_converter.Converter

class **gooddata_sdk.type_converter.Converter**

Bases: object

Base Converter class. It defines Converter API and implements support for external type conversion. External type conversion provides ability to plug-in conversion function to Converter

__init__()

Methods

__init__()

db_data_type()

set_external_fnc(fnc)

to_external_type(value)

to_type(value)

Attributes

DEFAULT_DB_DATA_TYPE

gooddata_sdk.type_converter.ConverterRegistryStore**class** gooddata_sdk.type_converter.ConverterRegistryStore

Bases: object

Class store TypeConverterRegistry instances for each registered type. It provides interface to register converters with type and sub-type and to find converter. The class is not meant to be used directly but as base class for child classes

__init__()**Methods****__init__()**

find_converter (type_name[, sub_type])	Find Converter for given type and sub type.
register (type_name, class_converter[, sub_types])	Register Converter instance created from provided Converter class to given type and list of sub types.
reset ()	Reset converters setup

classmethod find_converter(type_name: str, sub_type: Optional[str] = None) →
gooddata_sdk.type_converter.Converter

Find Converter for given type and sub type. :param type_name: type name :param sub_type: sub type name

classmethod register(type_name: str, class_converter: Type[Converter], sub_types: Optional[list[str]] = None) → None

Register Converter instance created from provided Converter class to given type and list of sub types. When sub types are not provided, converter is registered as the default one for given type. :param type_name: type name :param class_converter: Converter class :param sub_types: list of sub types or None (default type Converter)

classmethod reset() → None
 Reset converters setup

gooddata_sdk.type_converter.DBTypeConverterStore**class** gooddata_sdk.type_converter.DBTypeConverterStoreBases: *gooddata_sdk.type_converter.ConverterRegistryStore*

Store for conversion of database types

__init__()

Methods

`__init__()`

<code>find_converter(type_name[, sub_type])</code>	Find Converter for given type and sub type.
<code>register(type_name, class_converter[, sub_types])</code>	Register Converter instance created from provided Converter class to given type and list of sub types.
<code>reset()</code>	Reset converters setup

classmethod `find_converter`(*type_name: str, sub_type: Optional[str] = None*) → *gooddata_sdk.type_converter.Converter*

Find Converter for given type and sub type. :param type_name: type name :param sub_type: sub type name

classmethod `register`(*type_name: str, class_converter: Type[Converter], sub_types: Optional[list[str]] = None*) → None

Register Converter instance created from provided Converter class to given type and list of sub types. When sub types are not provided, converter is registered as the default one for given type. :param type_name: type name :param class_converter: Converter class :param sub_types: list of sub types or None (default type Converter)

classmethod `reset`() → None
Reset converters setup

`gooddata_sdk.type_converter.DateConverter`

class `gooddata_sdk.type_converter.DateConverter`
Bases: *gooddata_sdk.type_converter.Converter*

`__init__()`

Methods

`__init__()`

`db_data_type()`

`set_external_fnc(fnc)`

<code>to_date(value)</code>	Add first month and first date to incomplete iso date string.
-----------------------------	---

`to_external_type(value)`

`to_type(value)`

Attributes

DEFAULT_DB_DATA_TYPE

classmethod `to_date(value: str) → datetime.date`

Add first month and first date to incomplete iso date string.

```
>>> assert DateConverter.to_date("2021-01") == date(2021, 1, 1)
>>> assert DateConverter.to_date("1992") == date(1992, 1, 1)
```

gooddata_sdk.type_converter.DatetimeConverter

class `gooddata_sdk.type_converter.DatetimeConverter`

Bases: `gooddata_sdk.type_converter.Converter`

`__init__()`

Methods

`__init__()`

`db_data_type()`

`set_external_fnc(fnc)`

`to_datetime(value)` Append minutes to incomplete datetime string.

`to_external_type(value)`

`to_type(value)`

Attributes

DEFAULT_DB_DATA_TYPE

classmethod `to_datetime(value: str) → datetime.datetime`

Append minutes to incomplete datetime string.

```
>>> from datetime import datetime
>>> assert DatetimeConverter.to_datetime("2021-01-01 02") == datetime(2021, 1, 1,
↪ 1, 2, 0)
>>> assert DatetimeConverter.to_datetime("2021-01-01 12:34") == datetime(2021, 1, 1,
↪ 1, 12, 34)
```

gooddata_sdk.type_converter.IntegerConverter**class** gooddata_sdk.type_converter.IntegerConverterBases: *gooddata_sdk.type_converter.Converter***__init__**()**Methods**

__init__()

db_data_type()

set_external_fnc(fnc)

to_external_type(value)

to_type(value)

Attributes

DEFAULT_DB_DATA_TYPE

gooddata_sdk.type_converter.StringConverter**class** gooddata_sdk.type_converter.StringConverterBases: *gooddata_sdk.type_converter.Converter***__init__**()**Methods**

__init__()

db_data_type()

set_external_fnc(fnc)

to_external_type(value)

to_type(value)

Attributes

DEFAULT_DB_DATA_TYPE

gooddata_sdk.type_converter.TypeConverterRegistry

class gooddata_sdk.type_converter.TypeConverterRegistry(*type_name: str*)

Bases: object

Class stores converters for given type with ability to distinguish converters based on sub-type granularity.

__init__(*type_name: str*)

Initialize instance with type for which instance is going to be responsible :param type_name: type name

Methods

<code>__init__(type_name)</code>	Initialize instance with type for which instance is going to be responsible :param type_name: type name
<code>converter(sub_type)</code>	Find and return converter instance for a given sub-type.
<code>register(converter, sub_type)</code>	Register converter instance for given sub-type (granularity).

converter(*sub_type: Optional[str]*) → *gooddata_sdk.type_converter.Converter*

Find and return converter instance for a given sub-type. Default converter instance is returned if the sub-type is not found or not provided. When a default converter is not registered, ValueError exception is raised. :param sub_type: sub-type name :return: Converter instance

register(*converter: gooddata_sdk.type_converter.Converter, sub_type: Optional[str]*) → None

Register converter instance for given sub-type (granularity). If sub-type is not specified, converter is registered as the default one for the whole type. Default converter can be registered only once. :param converter: converter instance :param sub_type: sub-type name

4.2.9 gooddata_sdk.utils

Functions

`create_directory(path)`

`get_sorted_yaml_files(folder)`

<code>id_obj_to_key(id_obj)</code>	Given an object containing an id+type pair, this function will return a string key.
------------------------------------	---

<code>load_all_entities(get_page_func[, page_size])</code>	Loads all entities from a paged resource.
--	---

`read_layout_from_file(path)`

`write_layout_to_file(path, content)`

gooddata_sdk.utils.create_directory

`gooddata_sdk.utils.create_directory(path: pathlib.Path) → None`

gooddata_sdk.utils.get_sorted_yaml_files

`gooddata_sdk.utils.get_sorted_yaml_files(folder: Path) → list[Path]`

gooddata_sdk.utils.id_obj_to_key

`gooddata_sdk.utils.id_obj_to_key(id_obj: Union[str, gooddata_sdk.compute.model.base.ObjId, Dict[str, Dict[str, str]], Dict[str, str]]) → str`

Given an object containing an id+type pair, this function will return a string key.

For convenience, this also recognizes the *ref* format used by GoodData.UI SDK. In that format, the id+type are wrapped in ‘identifier’.

Parameters `id_obj` – id object

Returns string that can be used as key

gooddata_sdk.utils.load_all_entities

`gooddata_sdk.utils.load_all_entities(get_page_func: functools.partial[Any], page_size: int = 500) → AllPagedEntities`

Loads all entities from a paged resource. The primary input to this function is a partial function that is setup with all the fixed parameters. Given this the function will get entities page-by-page and merge them into a single ‘pseudo-response’ containing data and included attributes.

An example usage:

```
>>> import functools
>>> import gooddata_metadata_client as metadata_client
>>> import gooddata_metadata_client.apis as metadata_apis
>>> api = metadata_apis.EntitiesApi(metadata_client.ApiClient())
>>> get_func = functools.partial(api.get_all_entities_visualization_objects, 'some-
↳workspace-id',
>>>                                     include=["ALL"], _check_return_type=False)
>>> vis_objects = load_all_entities(get_func)
```

Parameters

- **get_page_func** – an API controller from the metadata client
- **page_size** – optionally specify page length, default is 500

Returns

gooddata_sdk.utils.read_layout_from_file

`gooddata_sdk.utils.read_layout_from_file(path: pathlib.Path) → Any`

gooddata_sdk.utils.write_layout_to_file

`gooddata_sdk.utils.write_layout_to_file(path: Path, content: Union[dict[str, Any], list[dict]]) → None`

Classes

AllPagedEntities(data, included)

SideLoads(objs)

gooddata_sdk.utils.AllPagedEntities

class `gooddata_sdk.utils.AllPagedEntities(data, included)`

Bases: `tuple`

`__init__()`

Methods

`__init__()`

<code>count(value, /)</code>	Return number of occurrences of value.
------------------------------	--

<code>index(value[, start, stop])</code>	Return first index of value.
--	------------------------------

Attributes

<i>data</i>	Alias for field number 0
-------------	--------------------------

<i>included</i>	Alias for field number 1
-----------------	--------------------------

count(value, /)
Return number of occurrences of value.

property data
Alias for field number 0

property included
Alias for field number 1

index(value, start=0, stop=9223372036854775807, /)
Return first index of value.

Raises `ValueError` if the value is not present.

`gooddata_sdk.utils.SideLoads`

class `gooddata_sdk.utils.SideLoads`(*objs: list[Any]*)

Bases: `object`

`__init__`(*objs: list[Any]*) → `None`

Methods

`__init__`(*objs*)

`all_for_type`(*obj_type*)

`find`(*id_obj*)

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