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google-cloud-bigquery 3.3.3

✓ Latest version

Released: Sep 29, 2022

`pip install google-cloud-bigquery` ⧉

Google BigQuery API client library

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Statistics

GitHub statistics:

⭐ **Stars: 504**

Project description

`support` `GA` `pypi` `v3.3.3` `python` `3.7 | 3.8 | 3.9 | 3.10`

Querying massive datasets can be time consuming and expensive without the right hardware and infrastructure. Google BigQuery solves this problem by enabling super-fast, SQL queries against append-mostly tables, using the processing power of Google's infrastructure.

- Client Library Documentation
- Product Documentation

Quick Start

In order to use this library, you first need to go through the following steps:

1. Select or create a Cloud Platform project.
2. Enable billing for your project.

3. Enable the Google Cloud BigQuery API.
4. Setup Authentication.

Installation

Install this library in a virtualenv using pip. virtualenv is a tool to create isolated Python environments. The basic problem it addresses is one of dependencies and versions, and indirectly permissions.

With virtualenv, it's possible to install this library without needing system install permissions, and without clashing with the installed system dependencies.

Supported Python Versions

Python >= 3.7, < 3.11

Unsupported Python Versions

Python == 2.7, Python == 3.5, Python == 3.6.

The last version of this library compatible with Python 2.7 and 3.5 is *google-cloud-bigquery==1.28.0*.

Mac/Linux

```
pip install virtualenv
virtualenv <your-env>
source <your-env>/bin/activate
<your-env>/bin/pip install google-cloud-bigquery
```

Windows

```
pip install virtualenv
virtualenv <your-env>
<your-env>\Scripts\activate
<your-env>\Scripts\pip.exe install google-cloud-bigquer
```

🍴 **Forks:** 192

⓵ **Open issues/PRs:** 88

View statistics for this project via Libraries.io ↗, or by using our public dataset on Google BigQuery ↗

Meta

License: Apache Software License (Apache 2.0)

Author: Google LLC ✉

Requires: Python >=3.7, <3.11

Maintainers

gcloudpypi

google_open source

TimSwast

Classifiers

Development Status
- 5 - Production/Stable

Intended Audience
- Developers

License

Example Usage

Perform a query

```python
from google.cloud import bigquery

client = bigquery.Client()

# Perform a query.
QUERY = (
    'SELECT name FROM `bigquery-public-data.usa_names.u
    'WHERE state = "TX" '
    'LIMIT 100')
query_job = client.query(QUERY)  # API request
rows = query_job.result()  # Waits for query to finish

for row in rows:
    print(row.name)
```

Instrumenting With OpenTelemetry

This application uses OpenTelemetry to output tracing data from API
calls to BigQuery. To enable OpenTelemetry tracing in the BigQuery
client the following PyPI packages need to be installed:

```
pip install google-cloud-bigquery[opentelemetry] opente
```

After installation, OpenTelemetry can be used in the BigQuery client
and in BigQuery jobs. First, however, an exporter must be specified
for where the trace data will be outputted to. An example of this can
be found here:

```python
from opentelemetry import trace
from opentelemetry.sdk.trace import TracerProvider
from opentelemetry.sdk.trace.export import BatchExportS
from opentelemetry.exporter.cloud_trace import CloudTra
trace.set_tracer_provider(TracerProvider())
trace.get_tracer_provider().add_span_processor(
```

```
            BatchExportSpanProcessor(CloudTraceSpanExporter())
    )
```

In this example all tracing data will be published to the Google Cloud Trace console. For more information on OpenTelemetry, please consult the OpenTelemetry documentation.

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