

BigQuery 101 — Notes

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All the permission is managed using Google Groups. Join here to get the access:

<https://groups.google.com/forum/#!forum/iykra-gcp/join>

SDK Installation

Download the SDK here and pick according to your OS:

<https://cloud.google.com/sdk/downloads>

SDK Authentication

Before start, you need to authenticate the SDK with your account. Follow the step below:

```
#creating configurations  
gcloud config configurations create iykra  
#authenticate SDK with your account  
gcloud auth login  
#set default project  
gcloud config set project public-bodt  
#authenticate application with gcloud api call with your account  
gcloud auth application-default login
```

Repository Download

You can download the code using command below:

```
#clone repo from source repositories  
gcloud source repos clone bigquery-101 --project=public-bodt
```

Python Library Minimal Requirement

Before start, you need to have below `python` packages installed:

- `python3.6` (you can use `miniconda` as alternative <https://conda.io/miniconda.html>)

- Libraries (do `pip install [package-name]`)
 - `pandas`
 - `google-cloud` (the complete package)or
 - For BigQuery: `google-cloud-bigquery`
 - For Cloud Storage: `google-cloud-storage`
 - For Pub/Sub: `google-cloud-pubsub`

Google BigQuery Access

Click this link to access the BigQuery Web UI: <https://bigquery.cloud.google.com/>

Handy Notes

Google documentation is your friend. Here's some useful links:

- `google-cloud` API
<http://google-cloud-python.readthedocs.io/en/latest/>
- BigQuery Docs
<https://cloud.google.com/bigquery/docs/>
- BigQuery `bq` CLI
<https://cloud.google.com/bigquery/docs/reference/bq-cli-reference>
- BigQuery StandardSQL Docs
<https://cloud.google.com/bigquery/docs/reference/standard-sql/>

