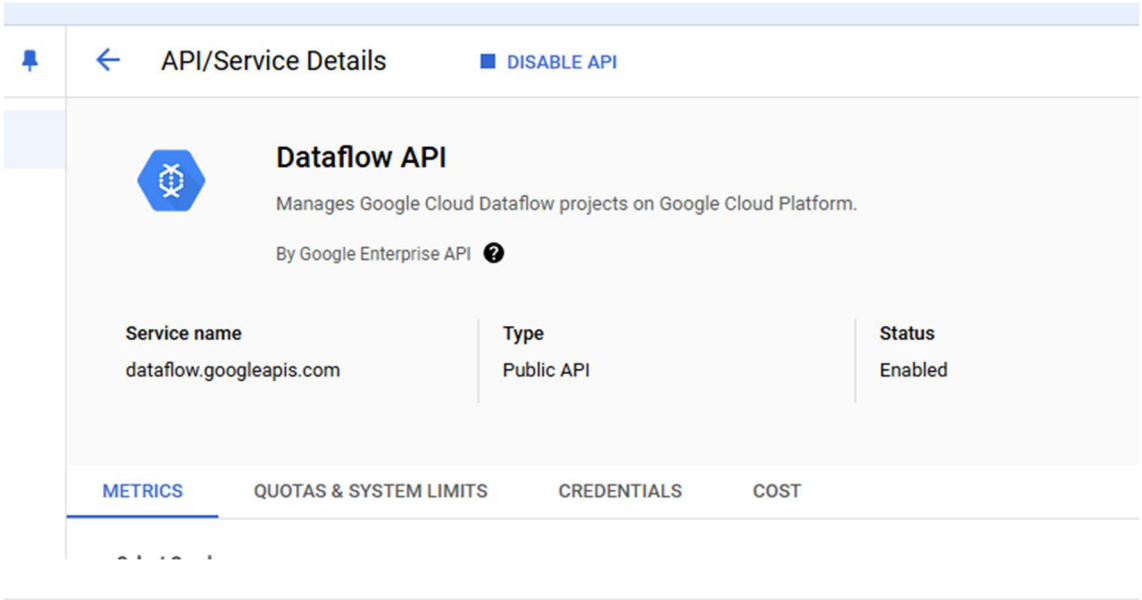
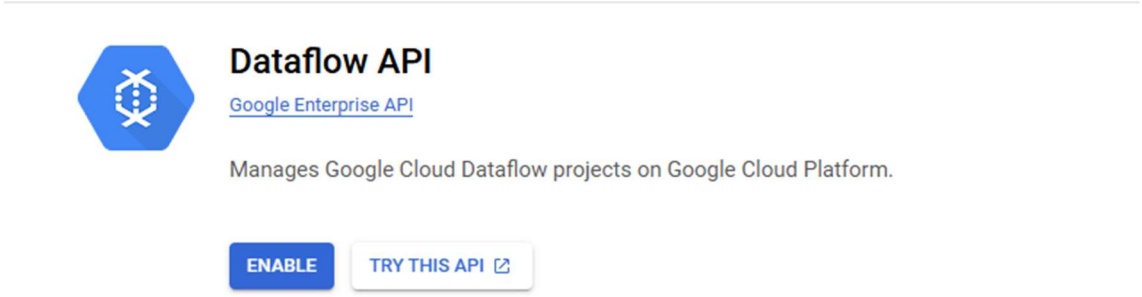
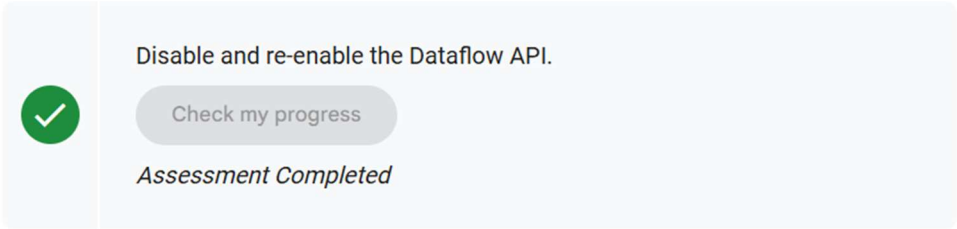
1 Lab

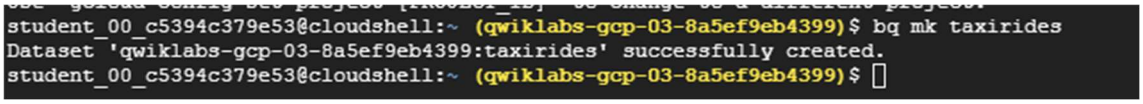
1. Nos aseguramos de que este habilitado el dataflow api







2. Creamos un dataset y una tabla de BigQuery en la consola de cloud (cloud Shell)



```
student_00_c5394c379e53@cloudshell:~ (qwiklabs-gcp-03-8a5ef9eb4399)$ bq mk \
--time_partitioning_field timestamp \
--schema ride_id:string,point_idx:integer,latitude:float,longitude:float,\
timestamp:timestamp,meter_reading:float,meter_increment:float,ride_status:string,\
passenger_count:integer -t taxirides.realtime
Table 'qwiklabs-gcp-03-8a5ef9eb4399:taxirides.realtime' successfully created.
student_00_c5394c379e53@cloudshell:~ (qwiklabs-gcp-03-8a5ef9eb4399)$
```

3. Creamos el bucket desde la consola de cloud

```
student_00_c5394c379e53@cloudshell:~ (qwiklabs-gcp-03-8a5ef9eb4399)$ export BUCKET_NAME=qwiklabs-gcp-03-8a5ef9eb4399
student_00_c5394c379e53@cloudshell:~ (qwiklabs-gcp-03-8a5ef9eb4399)$ gsutil mb gs://$BUCKET_NAME/
Creating gs://qwiklabs-gcp-03-8a5ef9eb4399/...
student_00_c5394c379e53@cloudshell:~ (qwiklabs-gcp-03-8a5ef9eb4399)$
```

Filter Filter buckets

Name	Created	Location type	Location	Default storage class	Last modified	Public access
qwiklabs-gcp-03-8a5ef9eb4399	Dec 5, 2024, 7:29:34 PM	Multi-region	us	Standard	Dec 5, 2024, 7:29:34 PM	Subject to object ACLs

4. Implementamos la plantilla de dataflow desde la consola de cloud.

```
    --gcs-location gs://dataflow-templates-europe-west4/latest/PubSub_to_BigQuery \
    --region europe-west4 \
    --worker-machine-type e2-medium \
    --staging-location gs://qwiklabs-gcp-03-8a5ef9eb4399/temp \
    --parameters inputTopic=projects/pubsub-public-data/topics/taxirides-realtime,outputTableSpec=qwiklabs-gcp-03-8a5ef9eb4399:taxirides.realtime
createTime: '2024-12-05T18:36:29.462684Z'
currentStateTime: '1970-01-01T00:00:00Z'
id: 2024-12-05_10_36_27-15521689394013611509
location: europe-west4
name: iotflow
projectId: qwiklabs-gcp-03-8a5ef9eb4399
startTime: '2024-12-05T18:36:29.462684Z'
type: JOB_TYPE_STREAMING
student_00_c5394c379e53@cloudshell:~ (qwiklabs-gcp-03-8a5ef9eb4399)$
```

5. Ejucutamos una consulta sql estandar

Untitled query RUN SAVE DOWNLOAD SHARE SCHEDULE OPEN IN MORE Query completed.

```
1  SELECT * FROM `qwiklabs-gcp-03-8a5ef9eb4399.taxirides.realtime` LIMIT 1000
```

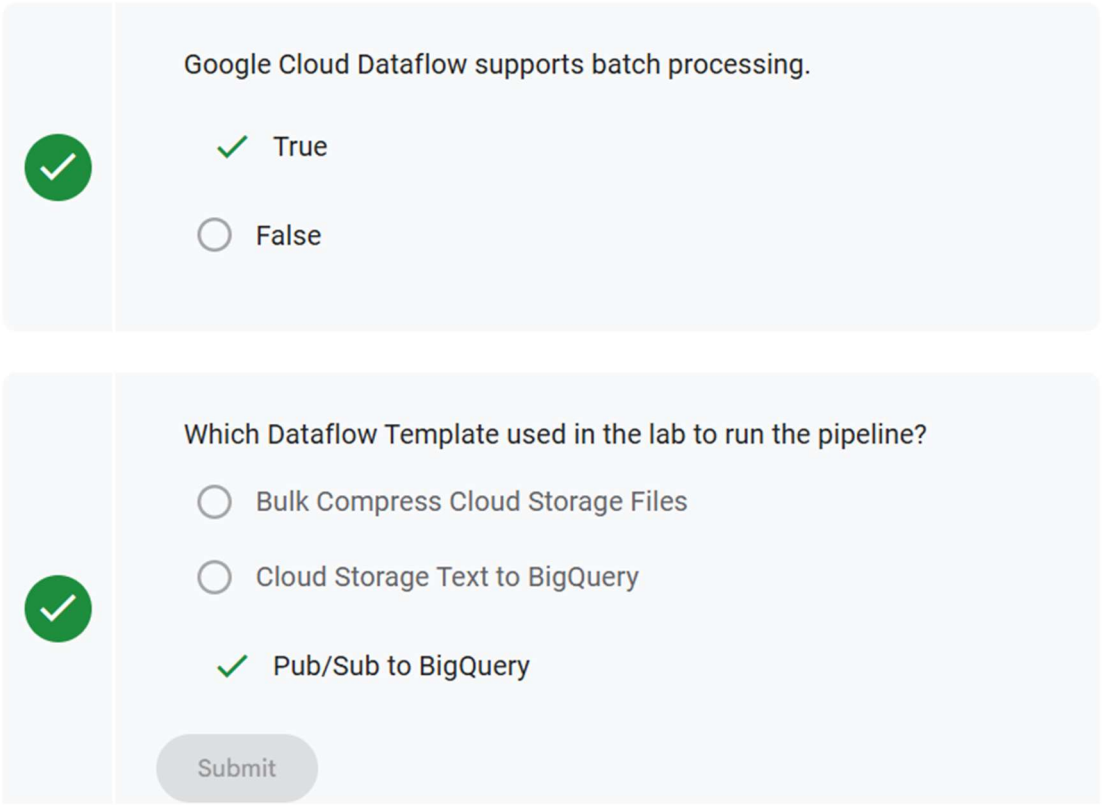
Press Alt+F1 for Accessibility Options.

Query results SAVE RESULTS OPEN IN

JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH

Row	ride_id	point_idx	latitude	longitude	timestamp	meter_reading	meter_incre
1	10d18d4c-2978-4a82-9c80-bb...	2004	40.73474	-73.9227100000...	2024-12-05 18:37:44.143360 U...	41.03294	0.02
2	b8b67629-7637-4149-900d-8d...	116	40.75653000000...	-73.97866	2024-12-05 18:37:44.860630 U...	4.543779	0.039
3	b11caacc-0b67-4549-885b-f19...	102	40.74423	-73.9792100000...	2024-12-05 18:37:44.715980 U...	3.4	0.033
4	ccb82ade-19de-41b3-b102-aec...	1890	40.77168	-73.8695200000...	2024-12-05 18:37:45.238330 U...	37.47982	0.019
5	93abca59-ab39-4a91-ad14-e48...	1692	40.76895000000...	-73.8661	2024-12-05 18:37:48.638660 U...	30.46963	0.018
6	151d1224-eba0-40a8-b113-1a...	202	40.75063	-73.98716	2024-12-05 18:37:47.956600 U...	5.870625	0.0
7	3db000a0-6010-436e-932d-28...	777	40.66678	-73.83605	2024-12-05 18:37:49.100840 U...	9.390193	0.01
8	1d2493e8-8de2-4333-9503-46...	189	40.76321	-73.98299	2024-12-05 18:37:48.456510 U...	8.677138	0.045
9	b4e2f594-a4ce-4f27-afc3-6c9e...	524	40.67733000000...	-73.8029600000...	2024-12-05 18:37:44.379680 U...	12.752946	0.024
10	da00f9e8-77cf-422b-b3b0-087...	646	40.72082	-74.0121700000...	2024-12-05 18:37:44.213080 U...	18.296295	0.02

6. Test finales



2 Lab

3 Lab

4 Lab