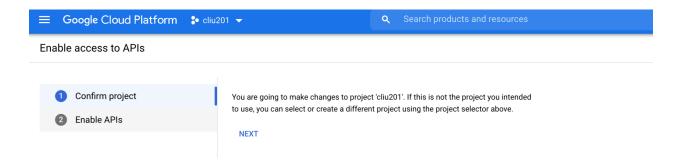
1.Full batch import bq into spanner

1.1.enable api



1.

1.create a schema for your database

Create a schema for your database

The Cloud Console provides two ways to create, alter, and delete tables and indexes in a database:

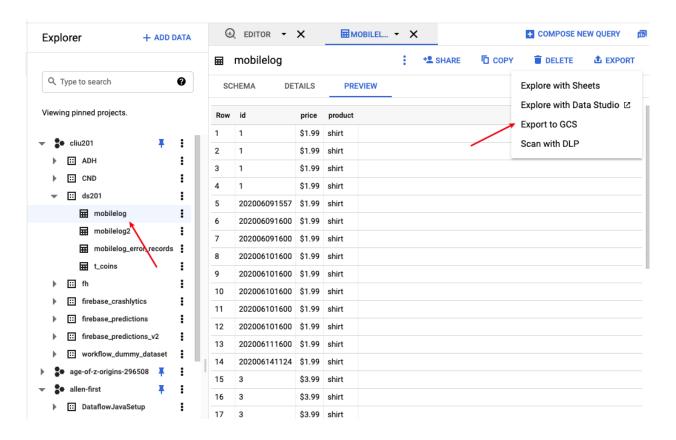
- By using the default Database editor to specify each part of tables, columns, and indexes.
- By switching the editor to **Edit as text** mode and entering SQL statements in Cloud Spanner Data Definition Language (DDL) syntax.

This quickstart uses DDL.

- 1. In the left pane of the Cloud Console, click the **example-db** database.
- 2. Click Create table.
- 3. Click the Edit as text toggle.
- 4. In the **DDL statement** field, enter:

```
CREATE TABLE MobileLog (
   id STRING(1024) NOT NULL,
   price STRING(1024),
   product STRING(1024)
) PRIMARY KEY (id);
```

1.2.export bq tables into avro file on GCS



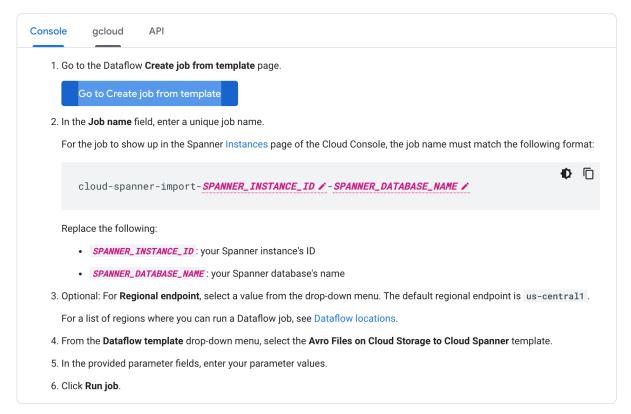
Specify the folder and the

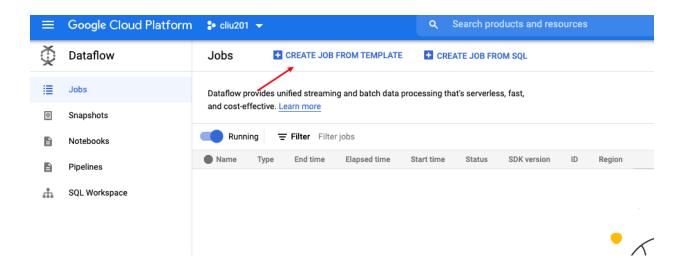
1.3. Creating a spanner-export.json file

Notes: it's relative path to spanner-export.json, not absolute path

1.4. Create bq to spanner dataflow job

Running the Cloud Storage Avro to Cloud Spanner template





Job name * bq-to-spanner-2 Must be unique among running jobs Regional endpoint * us-central1 Choose a Dataflow regional endpoint to deploy worker instances and store job metadata. You can optionally deploy worker instances to any available Google Cloud region or zone by using the worker region or worker zone parameters. Job metadata is always stored in the Dataflow regional endpoint. Learn more

A pipeline to import a Cloud Spanner database from a set of Avro files in GCS.

Required parameters

Dataflow template *

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Avro Files on Cloud Storage to Cloud Spanner

Cloud Spanner instance id * cliu201-spanner

The instance id of the Cloud Spanner database that you want to import to.

Cloud Spanner database id * example-db

The database id of the Cloud Spanner database that you want to import into (must already exist).

Cloud storage input directory * gs://cliu201-bucket/spanner/

The GCS path where the Avro files should be imported from.

Temporary location * ______gs://cliu201-bucket/temp/

Path and filename prefix for writing temporary files. Ex: gs://your-bucket/temp

2.Incremental import bq into spanner

2.1 bq export by "filter"

```
EXPORT DATA OPTIONS(
   uri='gs://cliu201-bucket/spanner/0803*',
   overwrite=true,
   format='AVRO') AS
SELECT * FROM `cliu201.ds201.mobilelog` where id = '0803'
```

Bucket details cliu201-bucket **OBJECTS** CONFIGURATION PERMISSIONS RETENTION L Buckets > cliu201-bucket > spanner [UPLOAD FILES UPLOAD FOLDER CREATE FOLDER MANAGE HOLDS Filter by name prefix only ▼ Filter Filter objects and folders Name Size Type 255 B application/octet-: mobilelogtospanner 2.3 KB application/octetspanner-export.json 124 B application/json

2.2. Creating a spanner-export.json file

Notes: it's relative path to spanner-export.json, not absolute path

2.3. Create bq to spanner dataflow job

Reference:

Importing data from non-Cloud Spanner databases