Setup Guides

BigQuery Console

1. In Chrome, go to this URL:
   https://console.cloud.google.com/logs/query?project=cpsc537-final-project
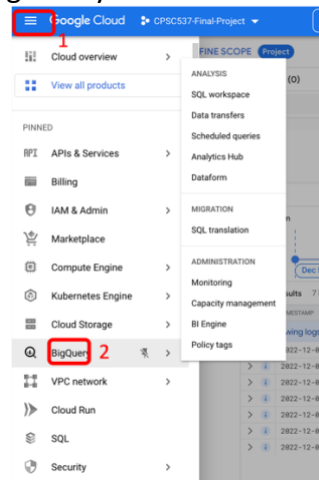   You should be able to see the page below. If permission denied, please check if Chrome was logged in with the same Gmail account you gave me.
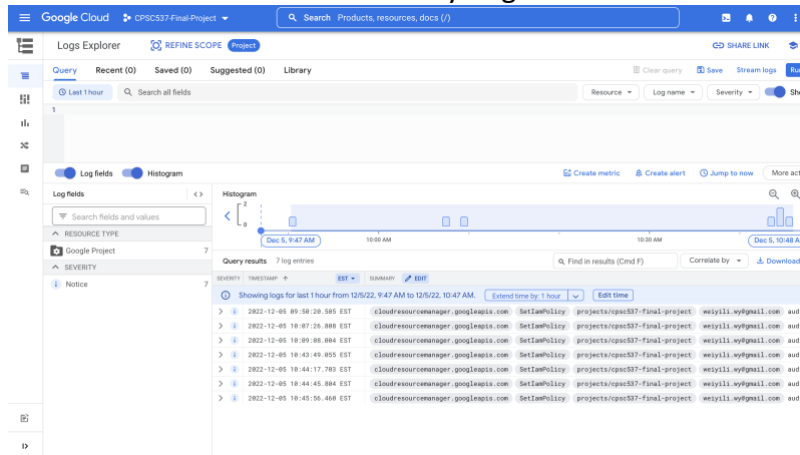
2. Click: Navigation Menu -> Big Query

3. In BigQuery Console, left menu shows the database and tables. In the right, there is an Editor to edit queries. After running, results will be shown below. We may use this console to debug SQL queries. (BigQuery SQL syntax may has some differences with MySQL.)
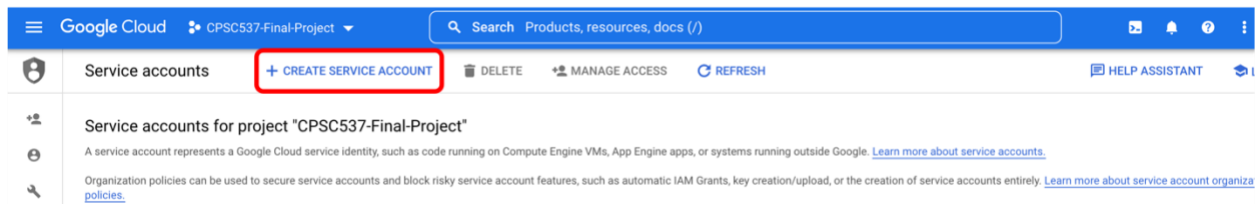
Use Python Client to Interact with BigQuery

1. Create a service account
   a. Click: Navigation Menu -> IAM & Admin -> Service Accounts
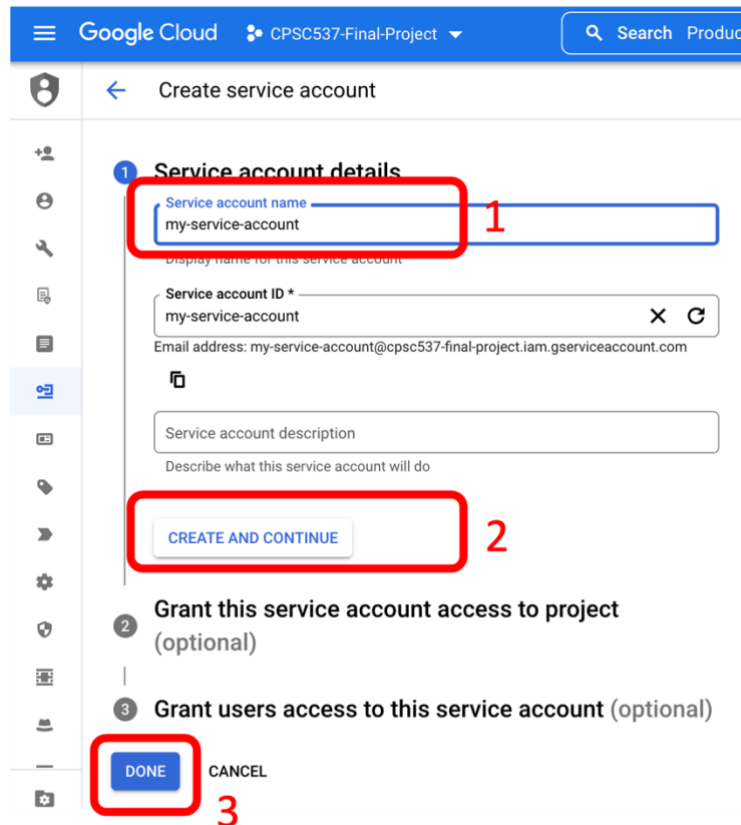
A service account has already been created, please skip to 2. Create a service account key

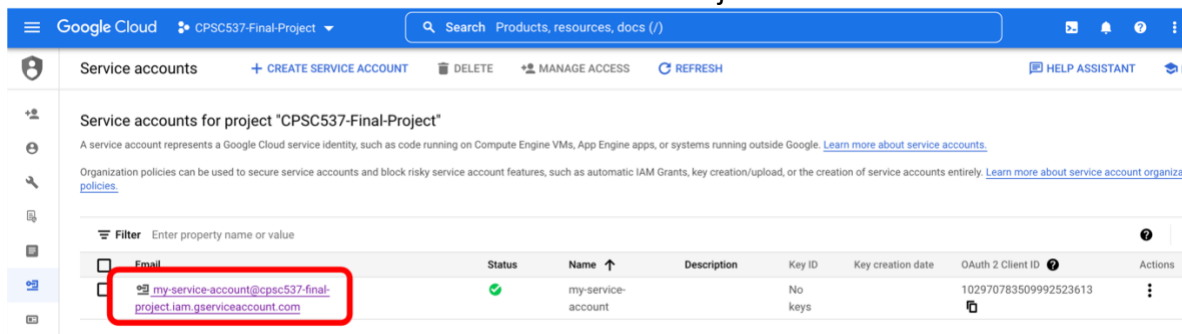   b.   Click: CREATE SERVICE ACCOUNT

      c.   Fill: Service account name
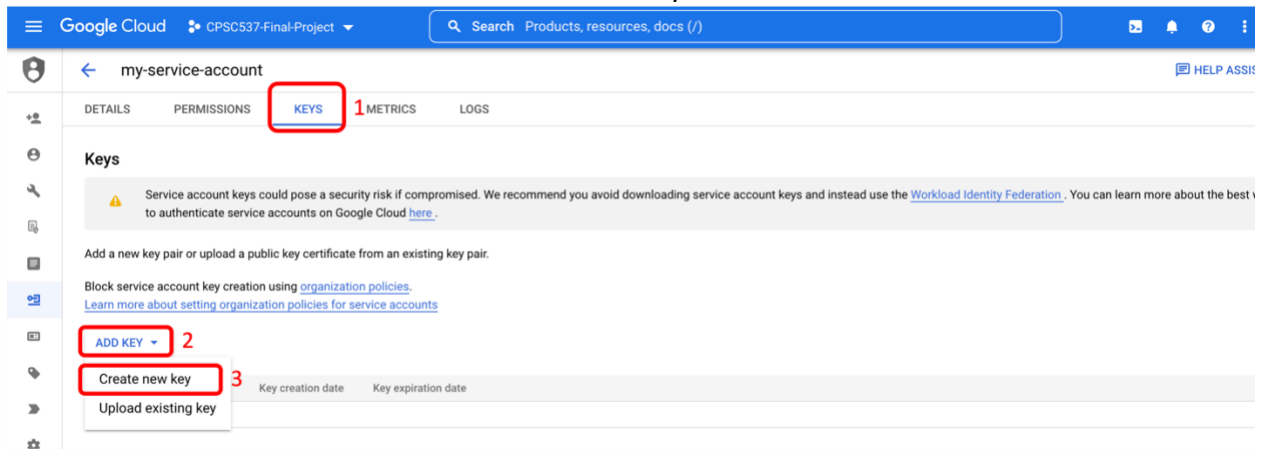   Click: CREATE AND CONTINUE -> DONE

2. Create a service account key
      a.   Click: email address for the service account just created
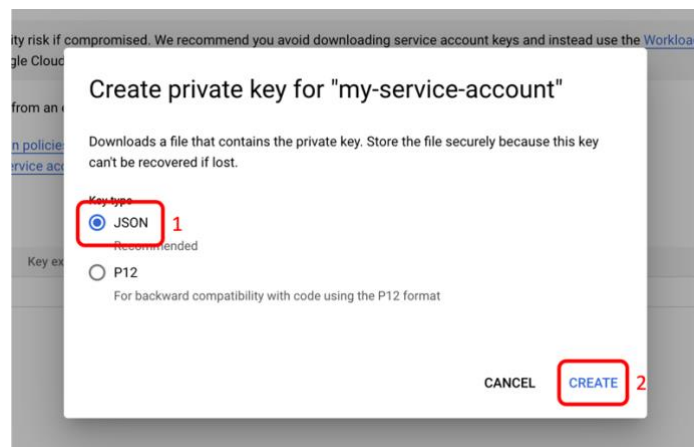
b. Click: KEYS -> ADD KEY -> Create new key

c. Choose: JSON (default)
Click: CREATE
JSON fill will be automatically downloaded. Save it in a proper folder.

BE CAREFUL!! Never push this JSON file to GitHub or any other public link.
Otherwise our Google Cloud account might be hacked and cause loss of money.

3. Install the client library and query dataset
Please refer to "537_MUSICREC/setup/setup.ipynb".

Reference:
https://cloud.google.com/bigquery/docs/quickstarts/quickstart-client-libraries