Assignment 6 - Google Cloud

1) Setup Cloud SQL service for a managed MySQL instance and run a few SQLs from your local machine using MySQL workbench. **(20 points)**

- Download and install MySQL workbench on your computer (just the workbench, no need to install entire MySQL unless you want to).
  https://www.mysql.com/products/workbench

I have downloaded MySQL Workbench on my mac os machine. Attaching below screenshot:

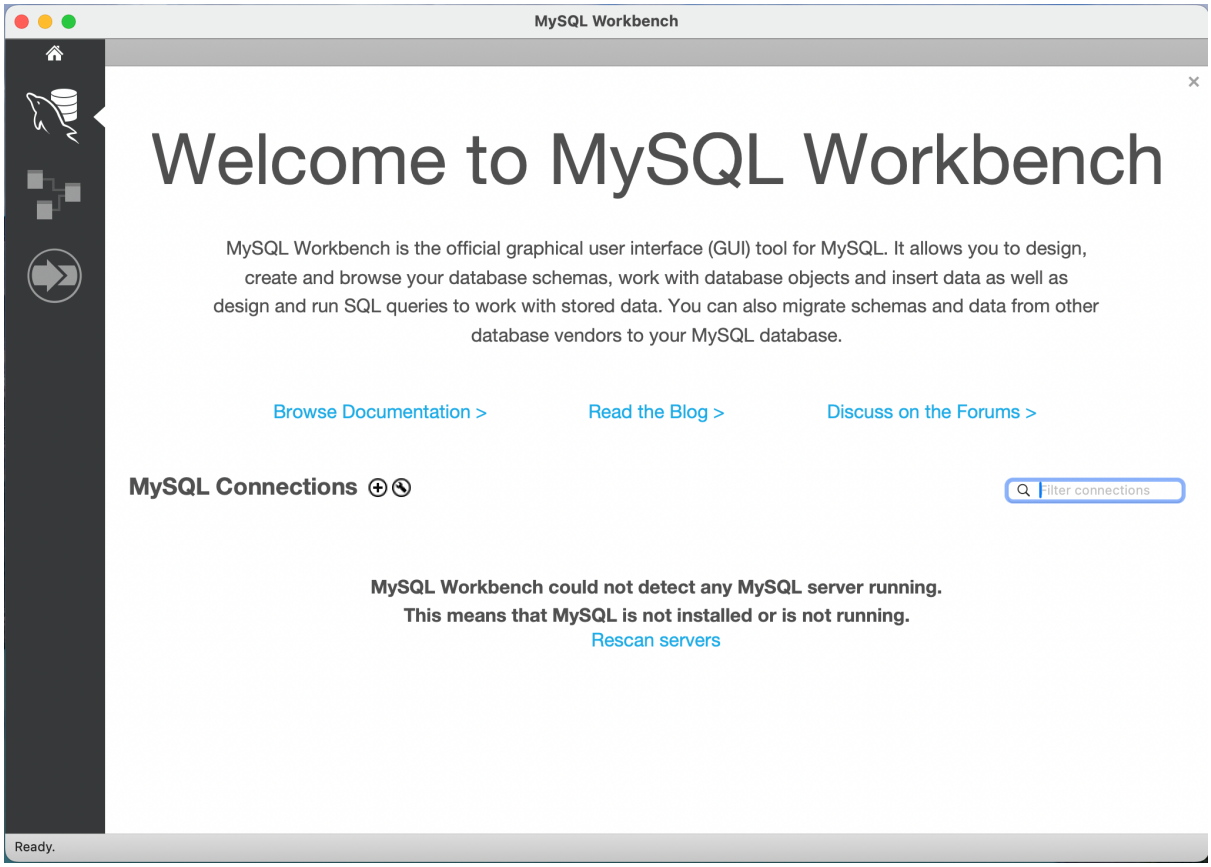

Fig 1: MySQL Workbench Dashboard

- Once workbench is installed, follow GCP CloudSQL Service Setup to setup your Cloud SQL managed instance.

We have created a new project in GCP (Assignment6). Attaching below screenshot:

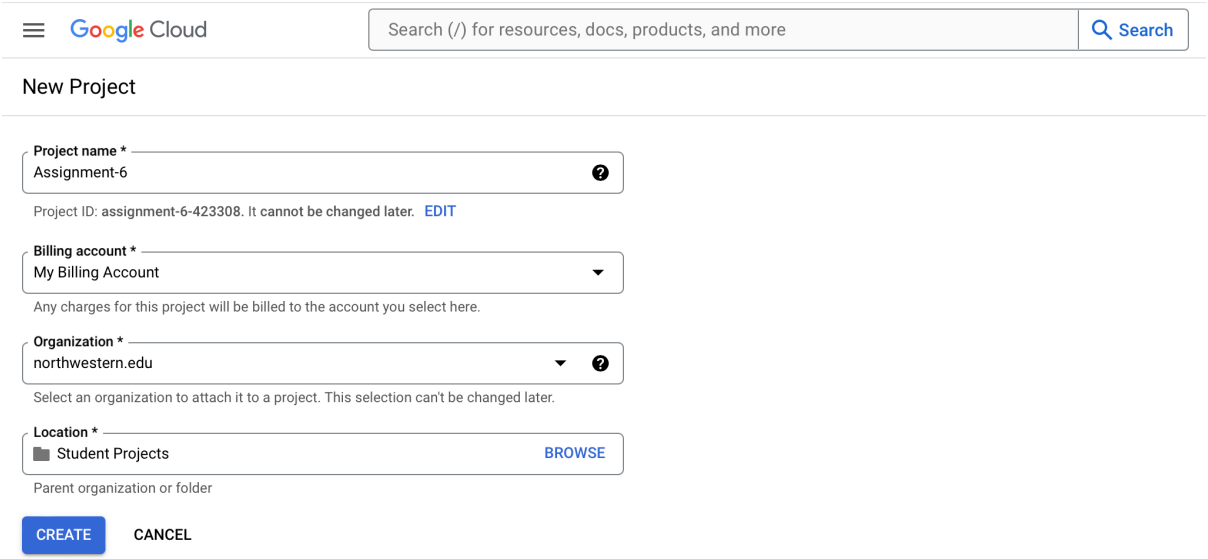

Fig 2: Creating new project in GCP

Created a VM (Virtual Machine) in GCP:

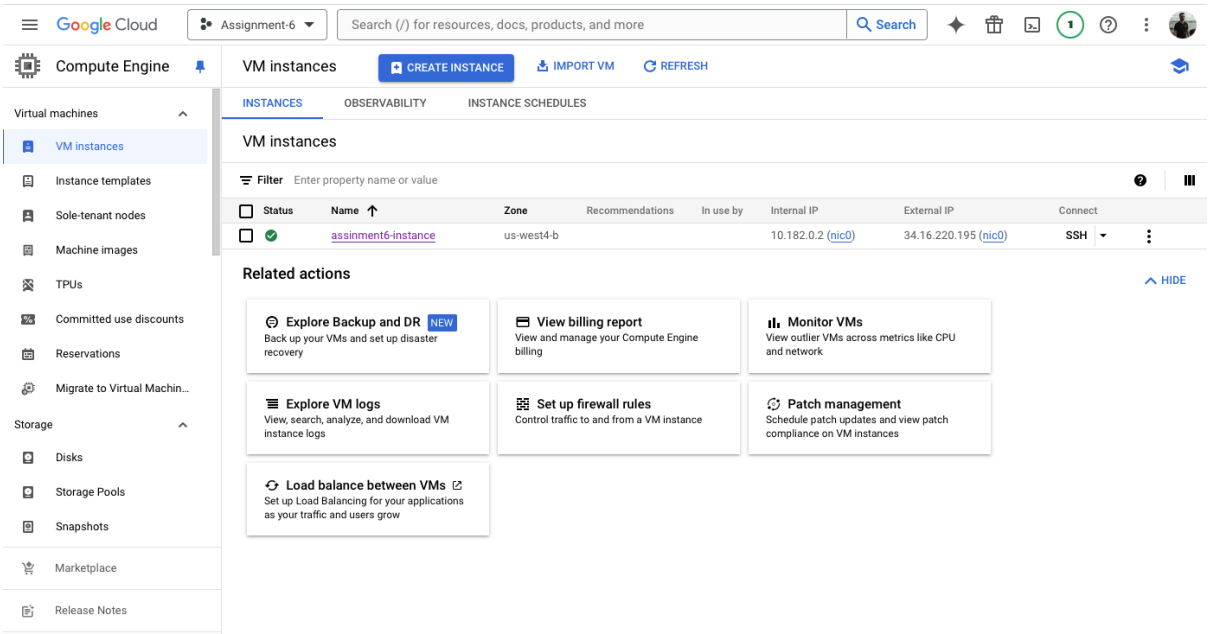

Fig 3: Created Virtual Machine in GCP

Created SQL Instance:

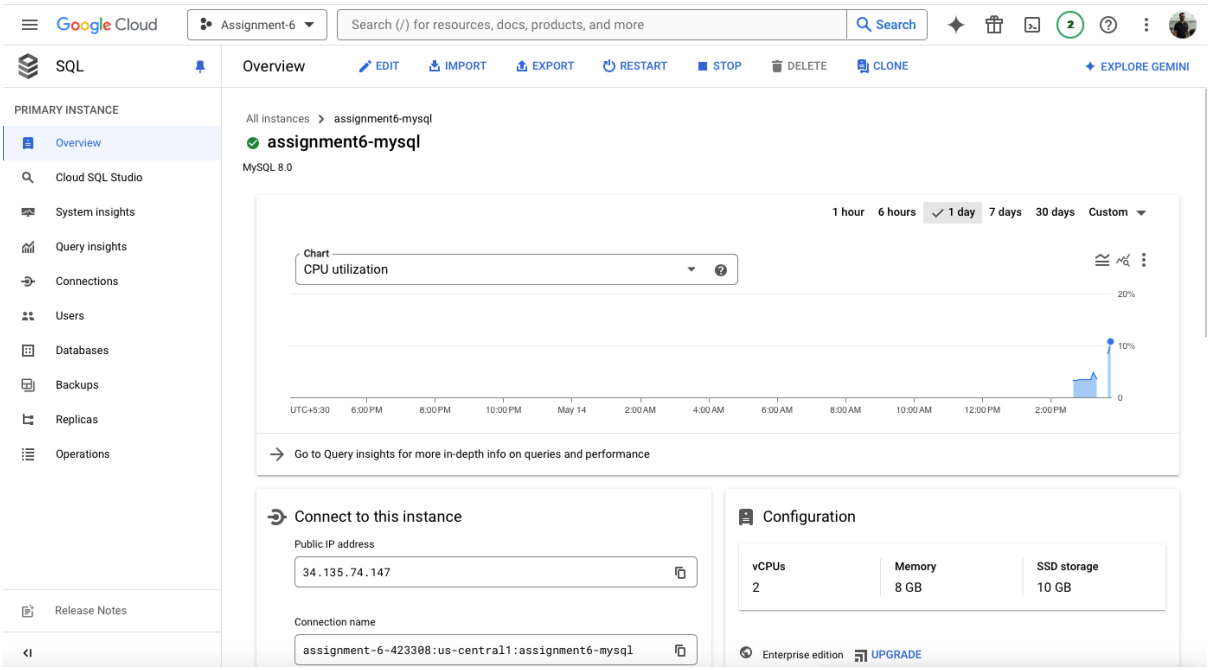

Fig 4: GCP SQL Server

Connected to Cloud SQL DB using MySQL workbench connection:

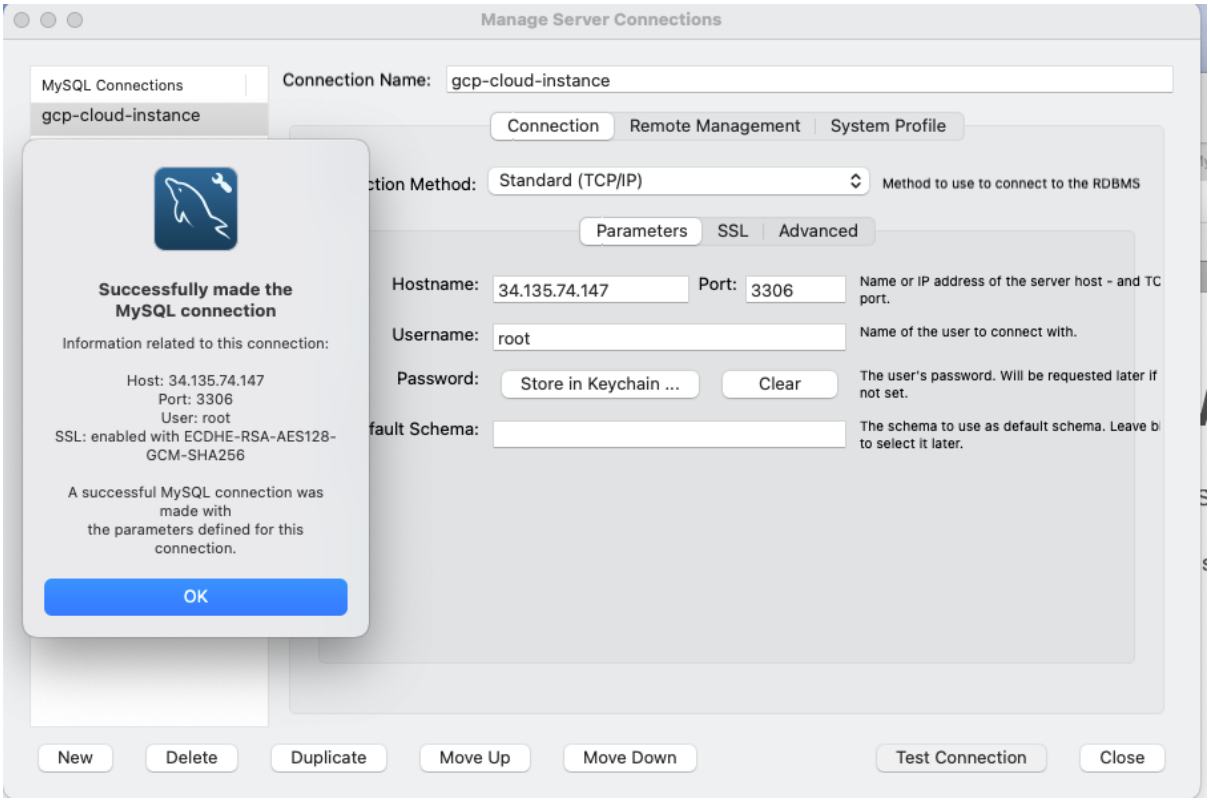

Fig 5: Screenshot of successful connection test with MySQL workbench and cloud sql server.

- Once all done, run a few SQL commands i.e. create a database, some tables, insert some data, sample SQLs can be found here
  https://dev.mysql.com/doc/refman/8.0/en/sql-statements.html
  or you can download and play with the sample Sakila database
  https://dev.mysql.com/doc/sakila/en/sakila-installation.html

We have downloaded and run different operations with sample Sakila database which we will explore in Panopto recording.

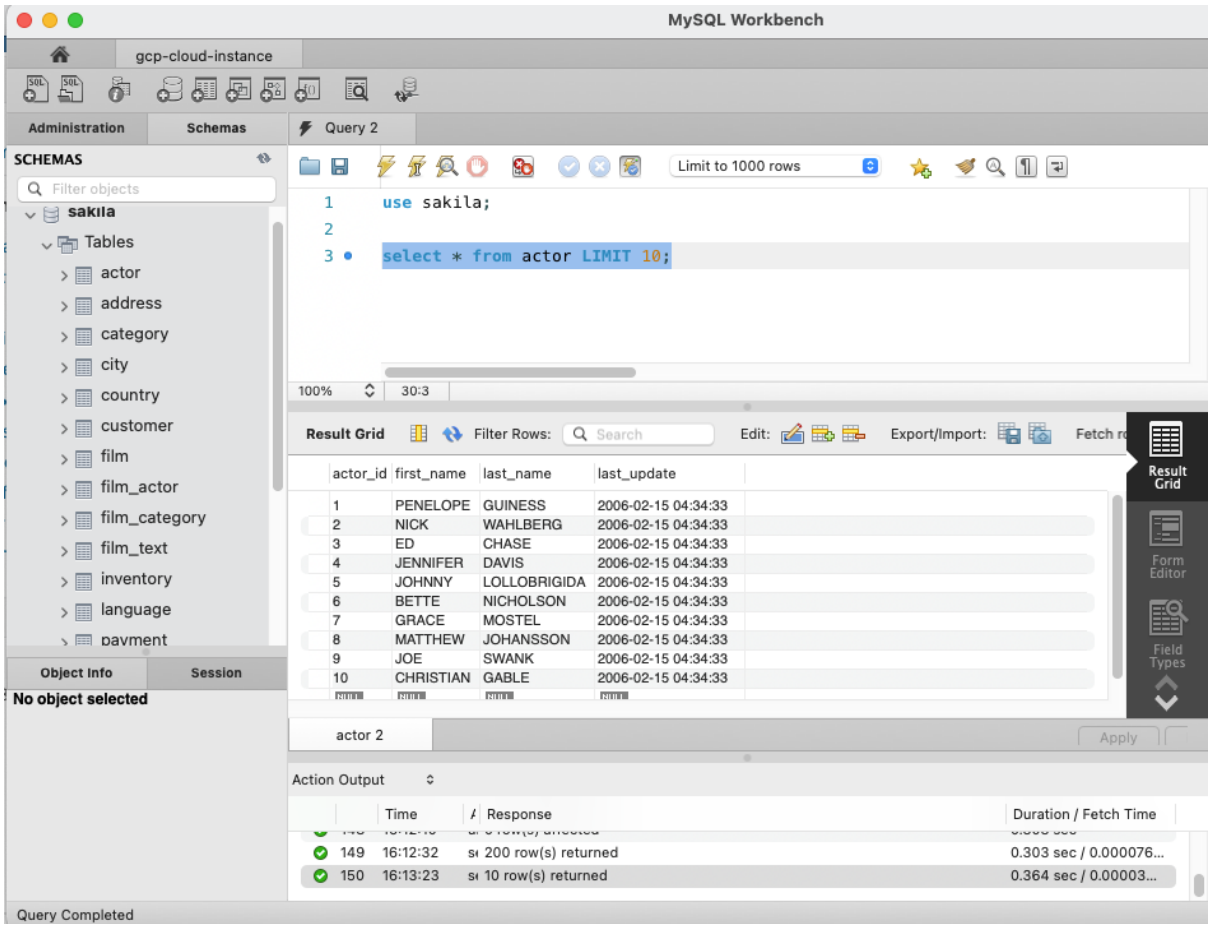

Fig 6: Running SQL Commands on MySQL Workbench

2) Complete one of the following GCP labs **(20 points)**

- https://cloud.google.com/run/docs/quickstarts/build-and-deploy/deploy-go-service

We have completed the above lab and deployed a sample `hellloworld` go application. Attaching the below screenshot of terminal of successful deployment.

Our app has authentication required as a part of security so we have to send a bearer token to access the app.

Below command is used to access the app:

curl -H \

"Authorization: Bearer $(gcloud auth print-identity-token)" \

https://assignment6432-egbc3elpka-uc.a.run.app

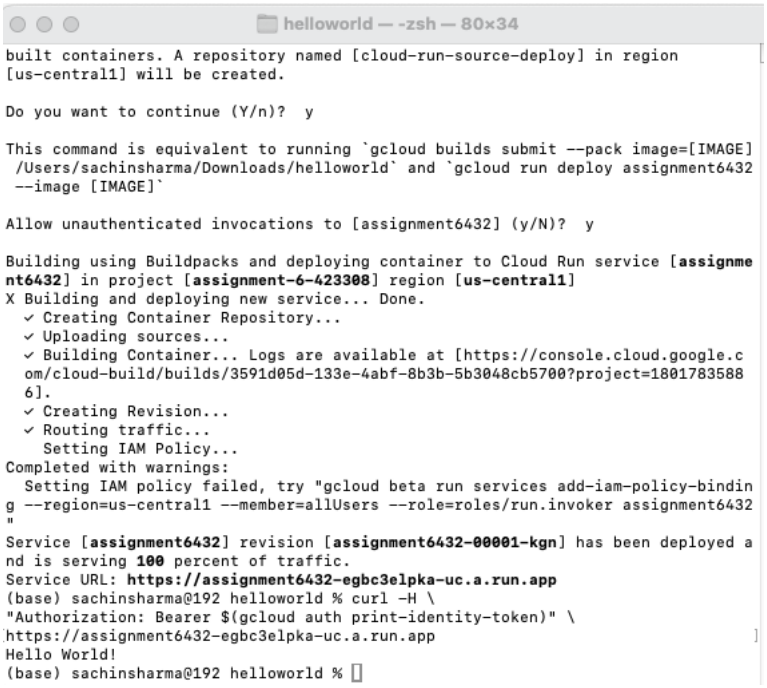

Fig 7: Golang lab code deployment using GCP CLI