Name : Alok Ranjan   
Email : [a.s.ranjan@acccenture.com](mailto:a.s.ranjan@acccenture.com)

AIM: To create a cloud spanner instance, creating a populated database, querying the data, and then exporting it to Google Cloud Storage

**STEPS:**

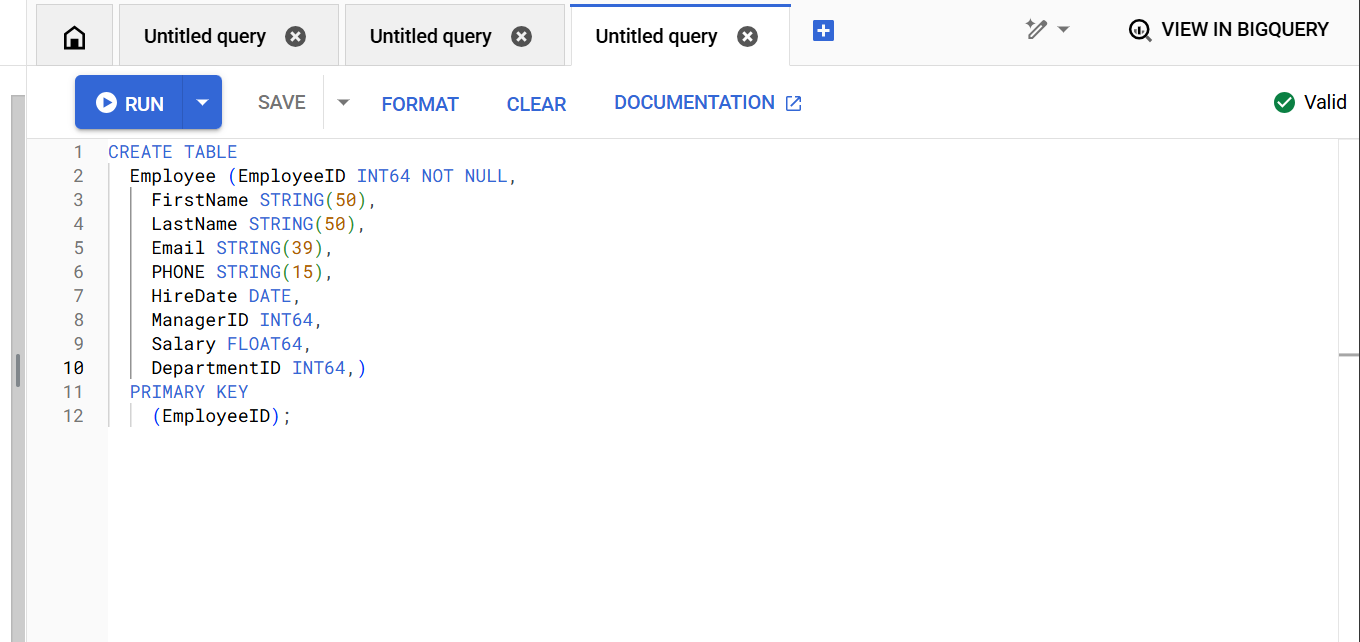
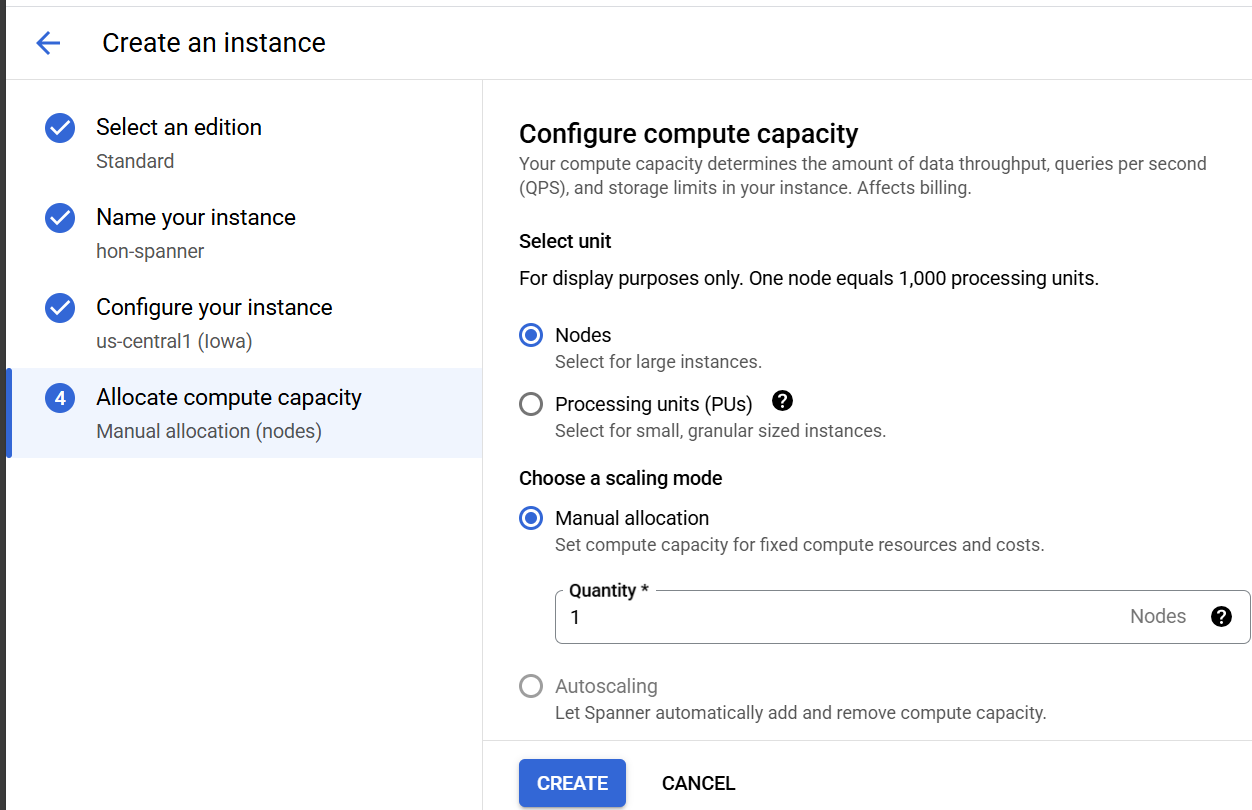
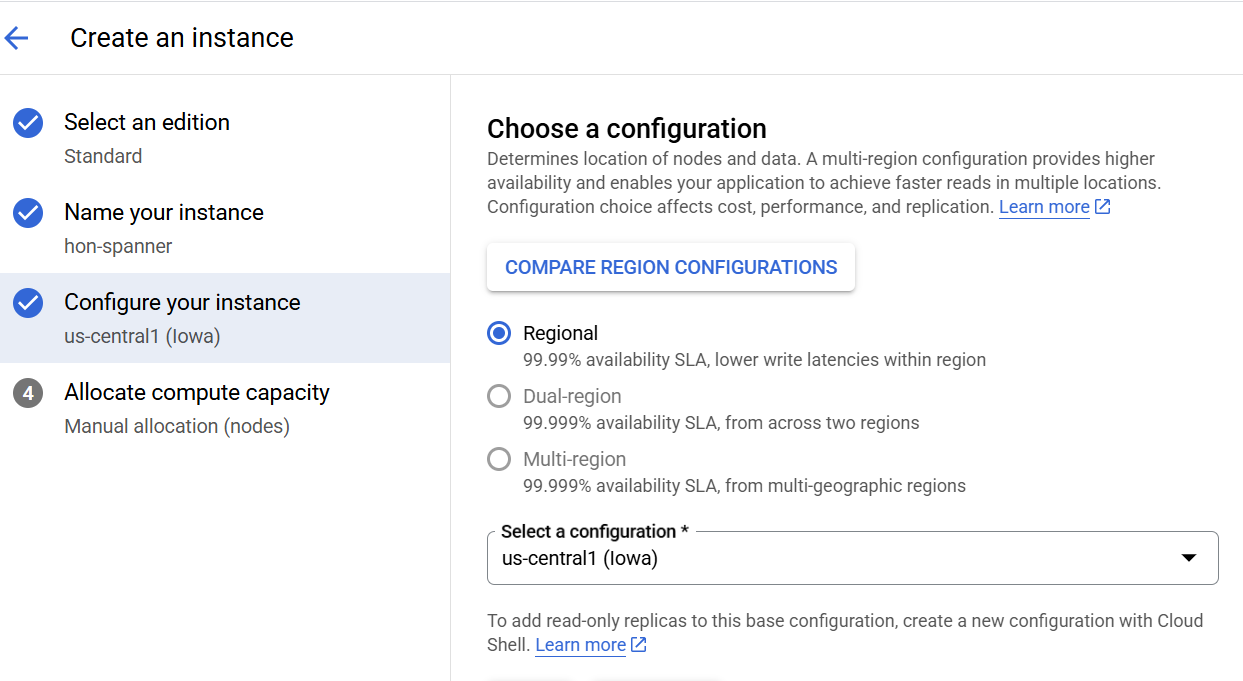
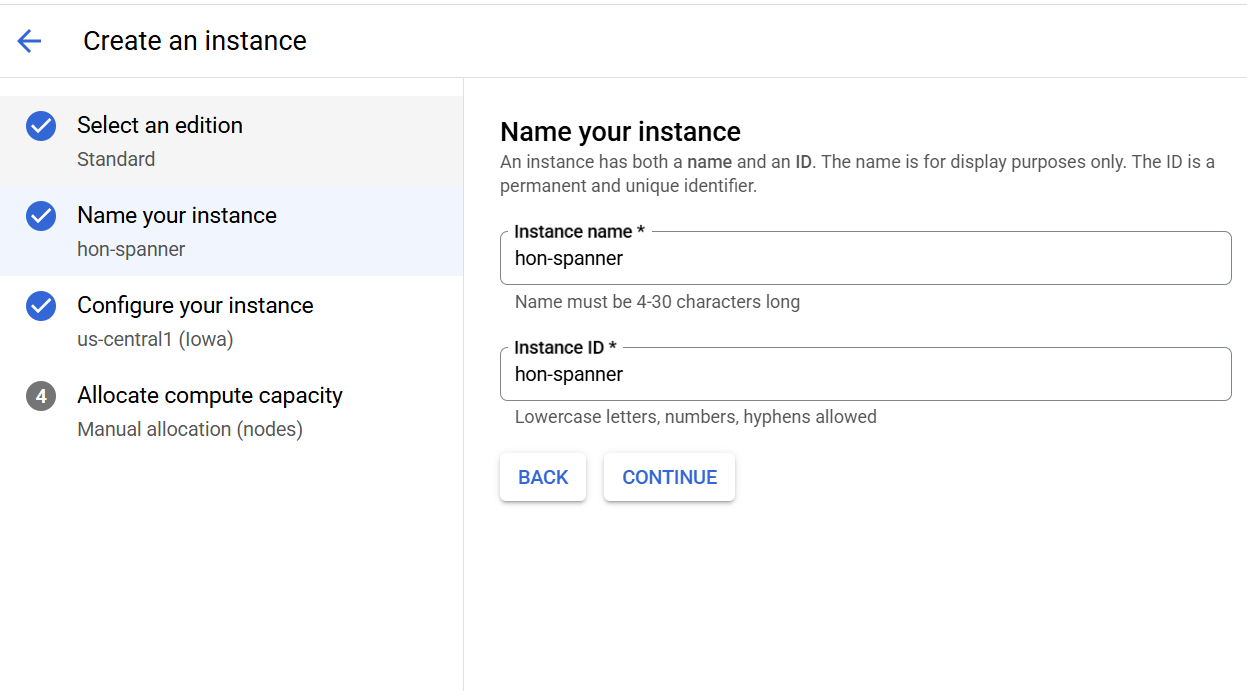
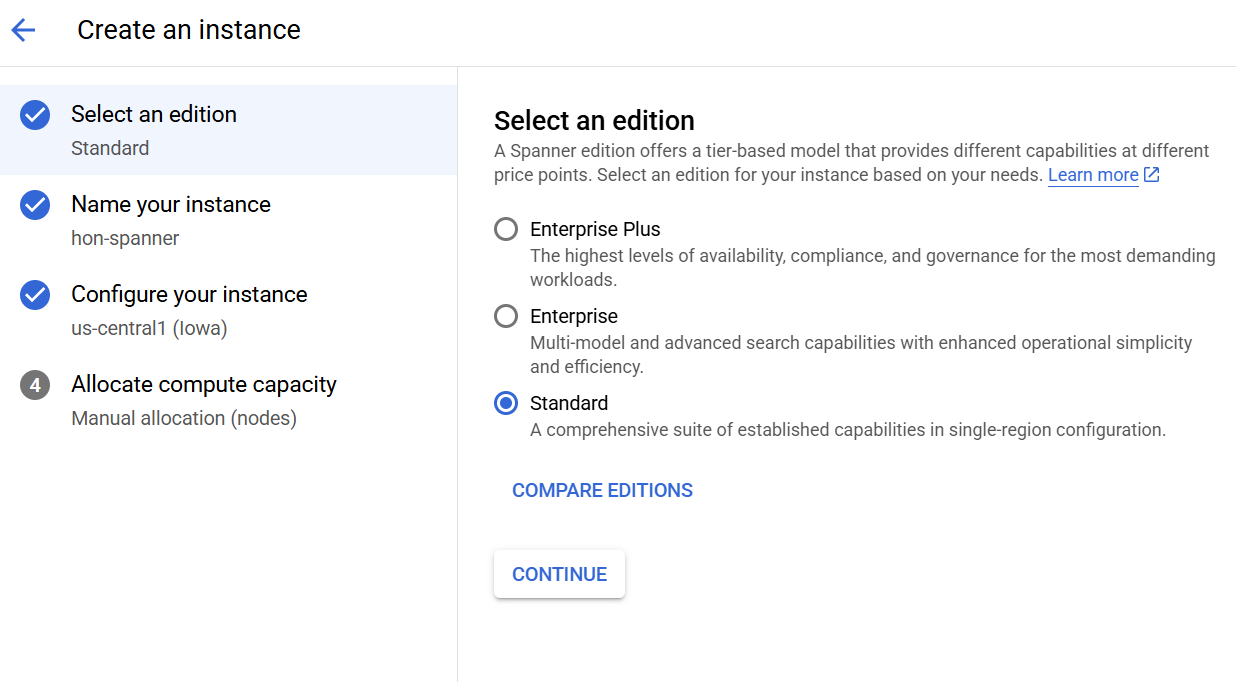
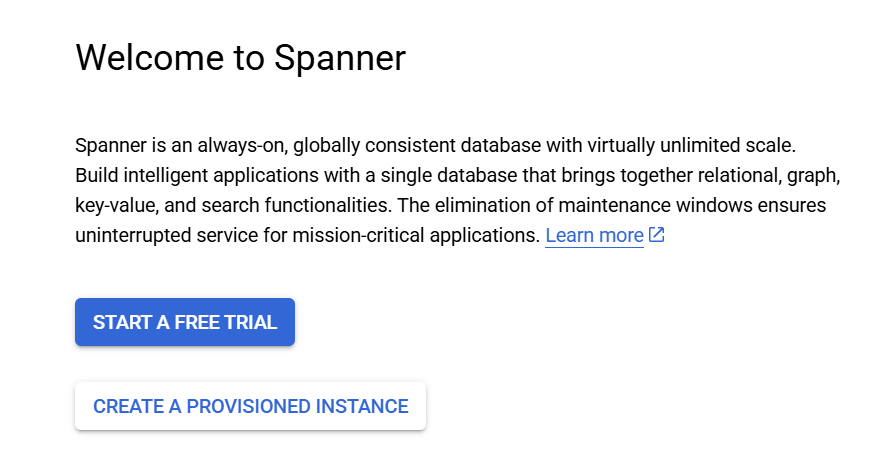
1. Go to databases < Cloud Spanner < Create a provisioned instance
2. Create the cloud spanner instance by selecting the edition – Standard < then naming the instance **(hon-spanner)** < selecting the region configuration(**us-central1**) < and then finally allocating the compute capacity and number of nodes (**1**).
3. Once the instance is created go to overview < databases section < create a database.
4. Create the database by naming it(**hon-db**) < then choosing the required database dialect.
5. After the database is successfully created < go to overview < create table section.
6. Use the desired schema to create the following tables.
7. Insert the data into the following tables.
8. Queries:

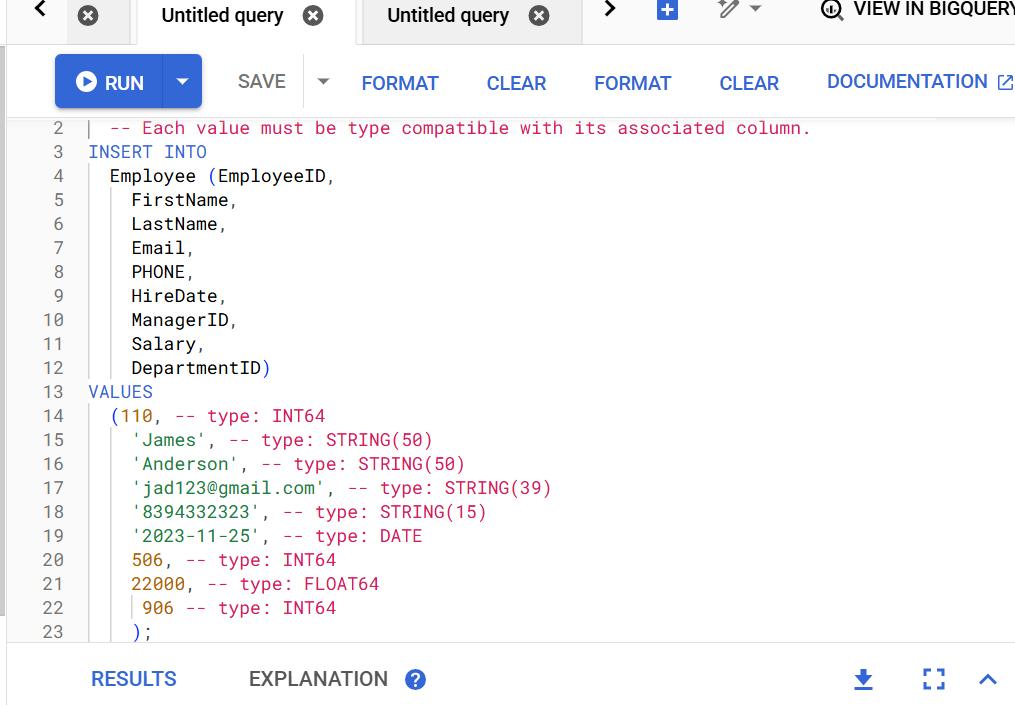
* Display the count of employees based on department id.
* Display the Employee Id, FirstName, Email, Address and Type.
* Display the Manager Name of all the employees.

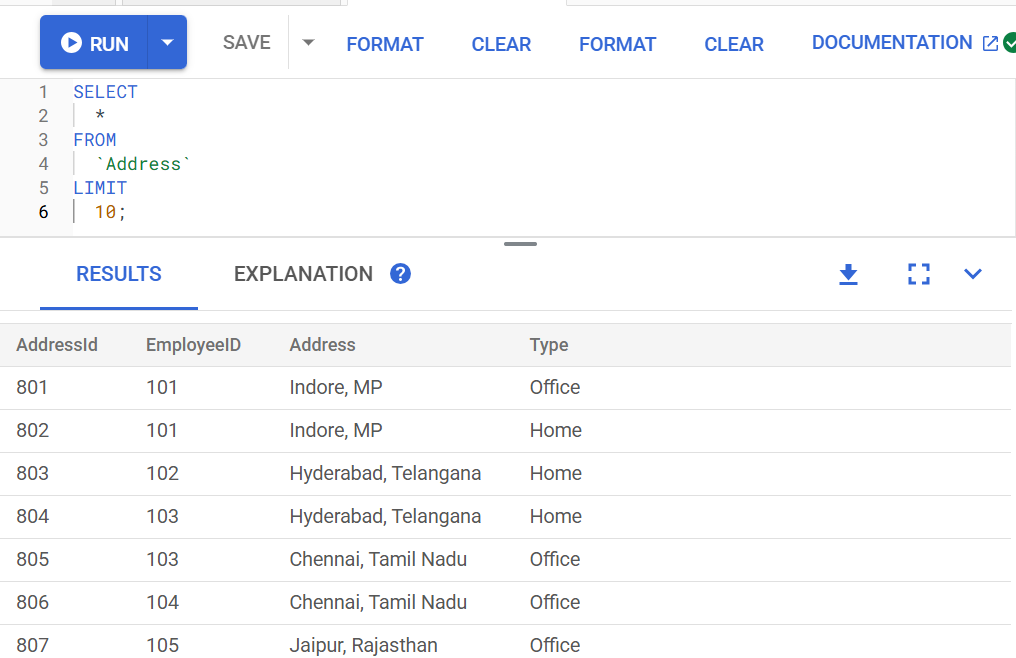
1. Exporting Data to Google Cloud Storage:

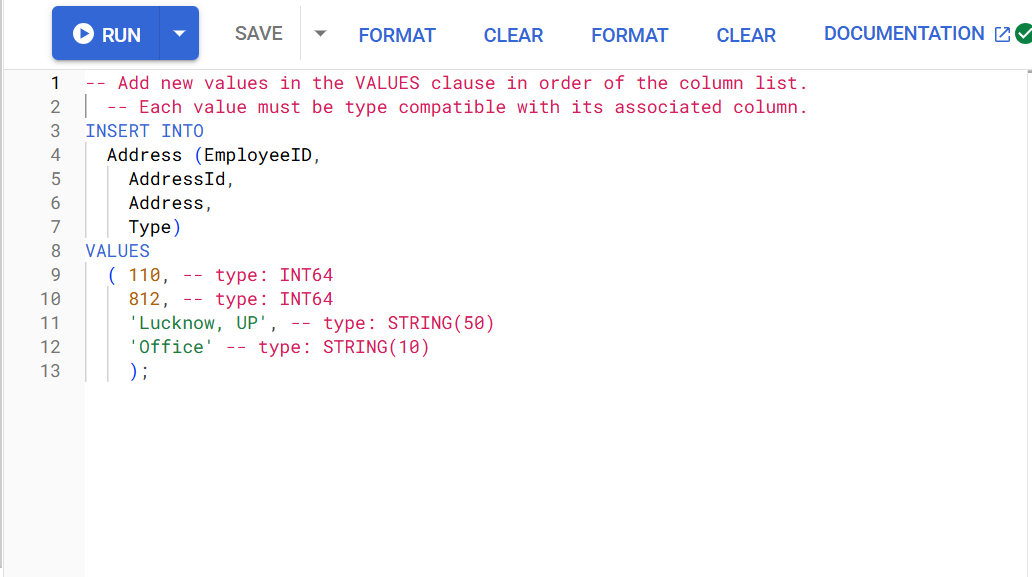
* Go to Export/Import Section < Export.
* Create a new bucket to store the exported data.
* Choose different storage options and retention policy for the bucket as required.
* Also add the object lifecycle rule to delete the object by specifying two conditions: 365+ days since object was created and Storage Class matches Archive.
* Select this newly created bucket as the destination < Select the database to be exported < and the region for the export job.
* Finally export the database.

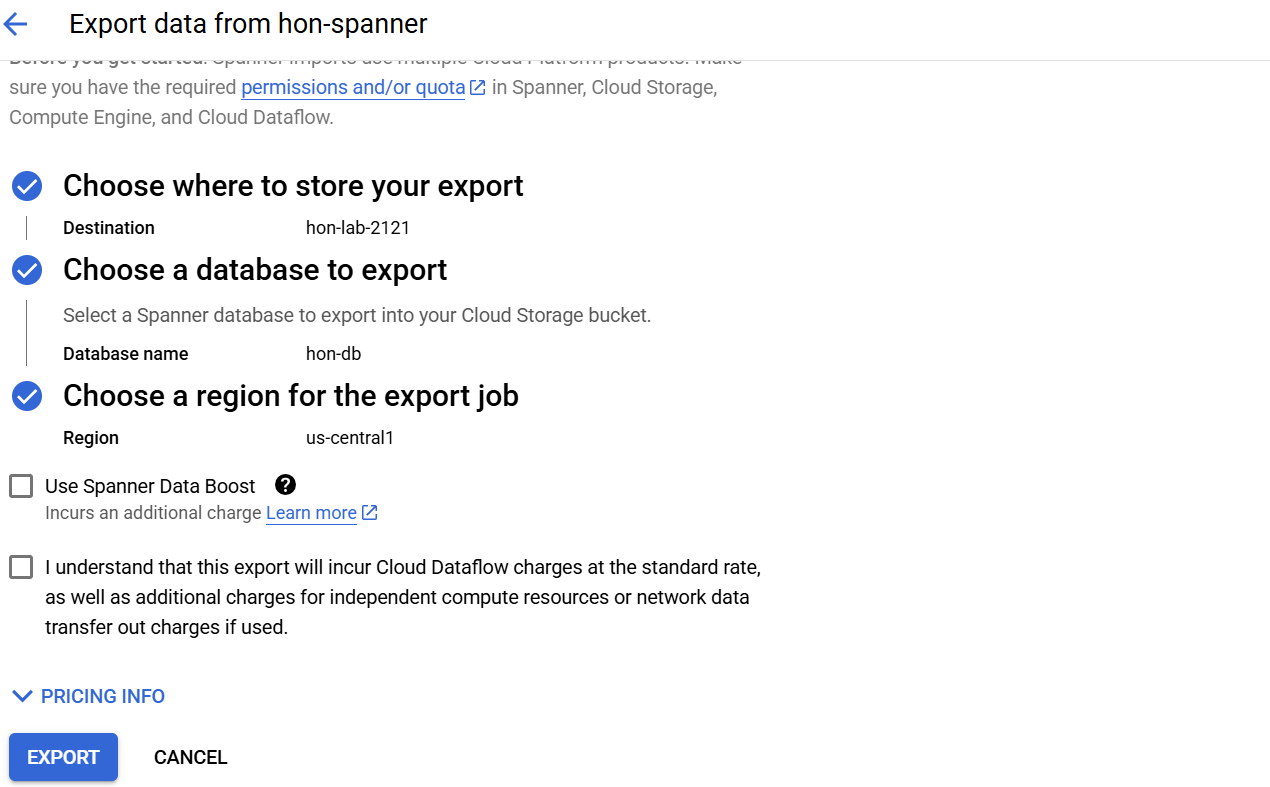
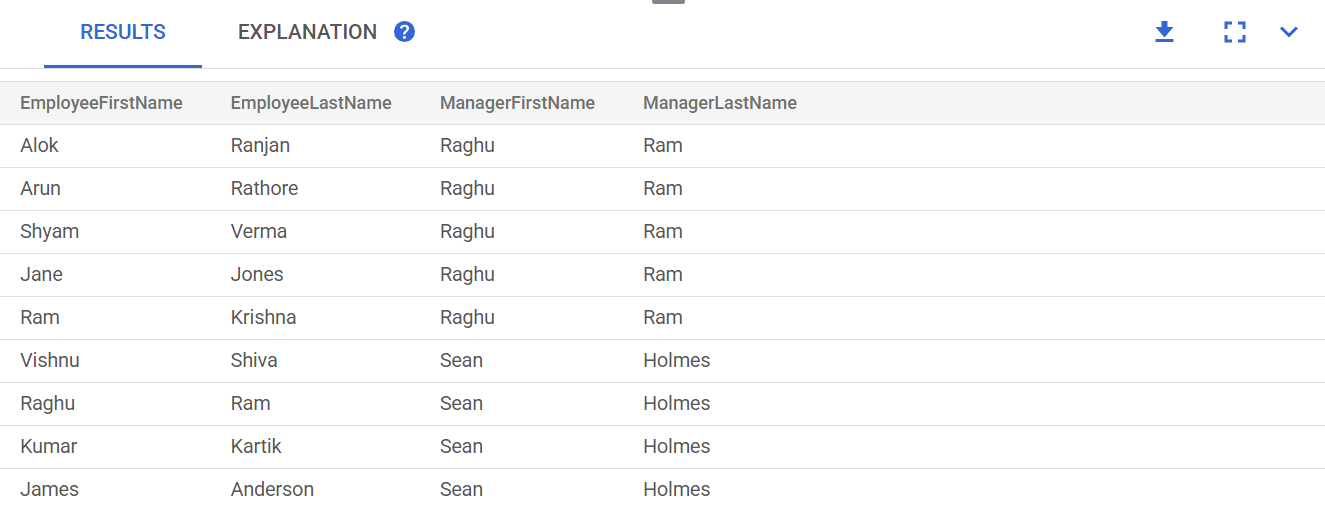
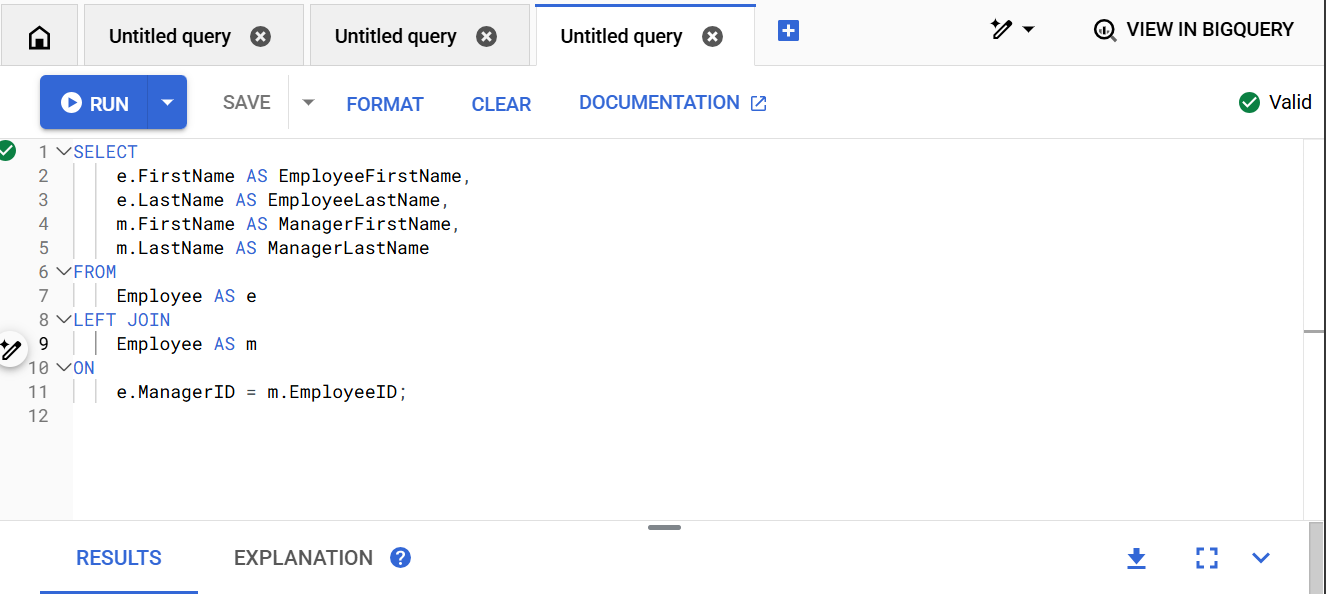
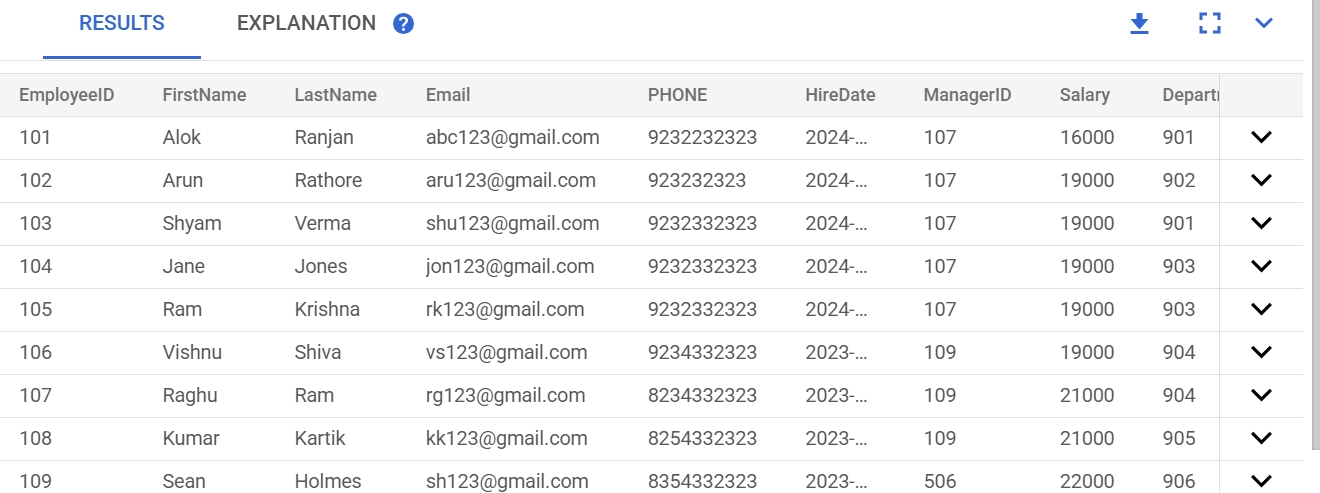
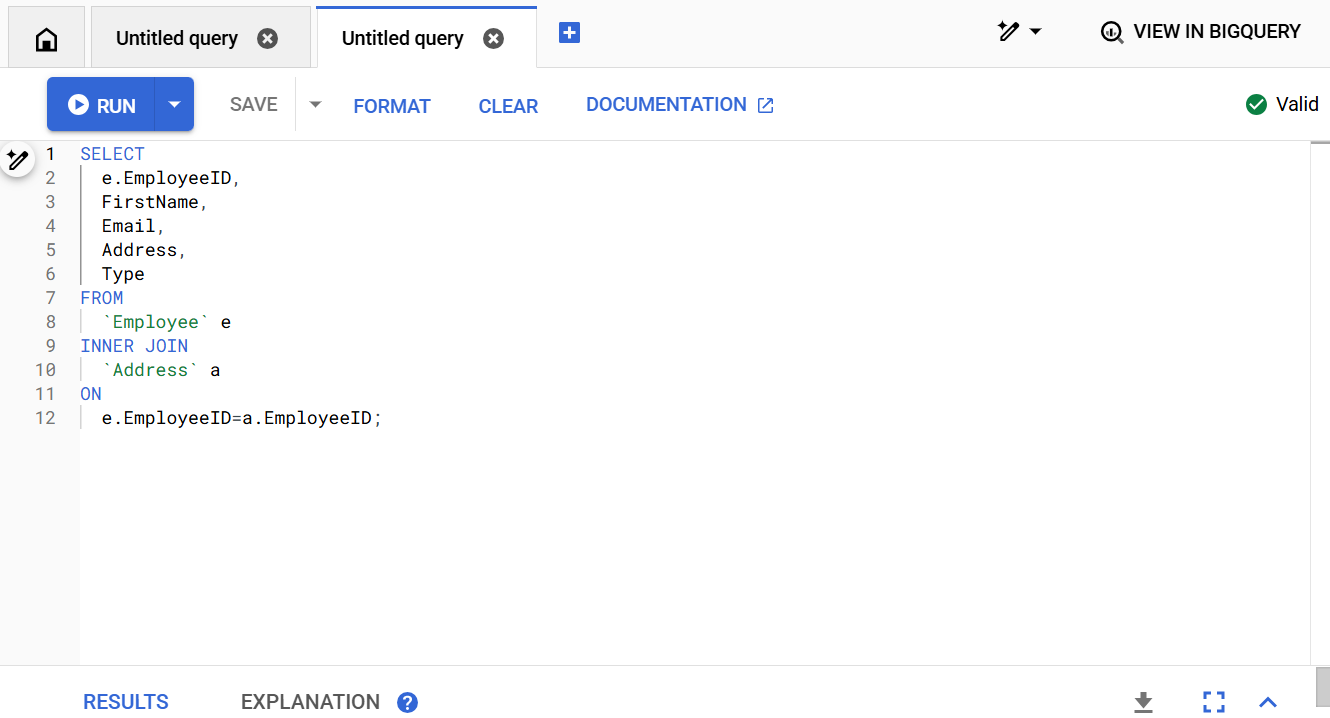
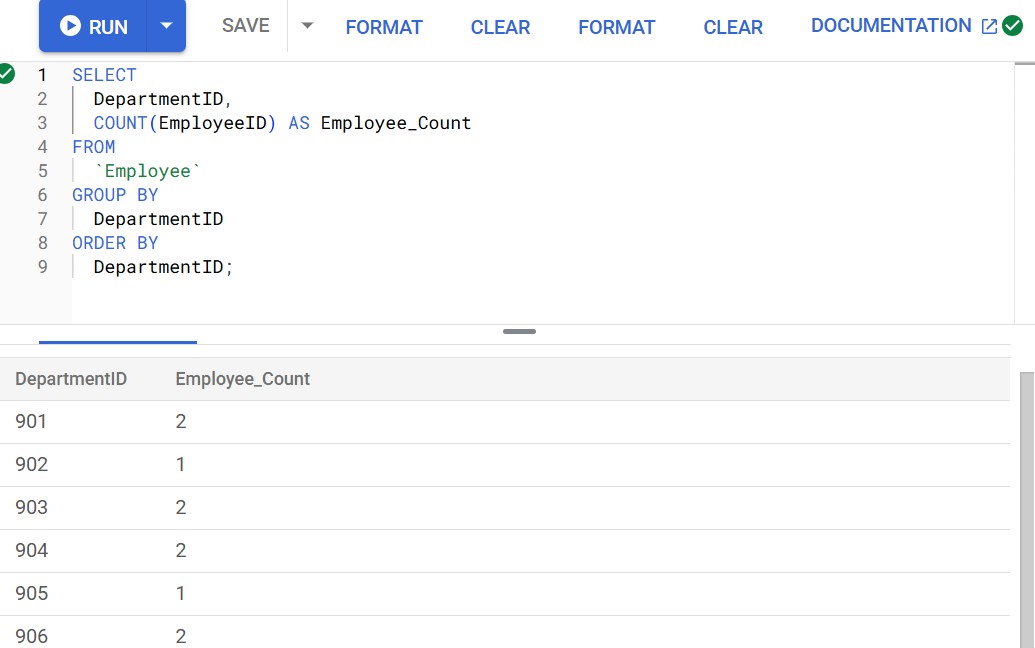
**Output** **Screenshots**:

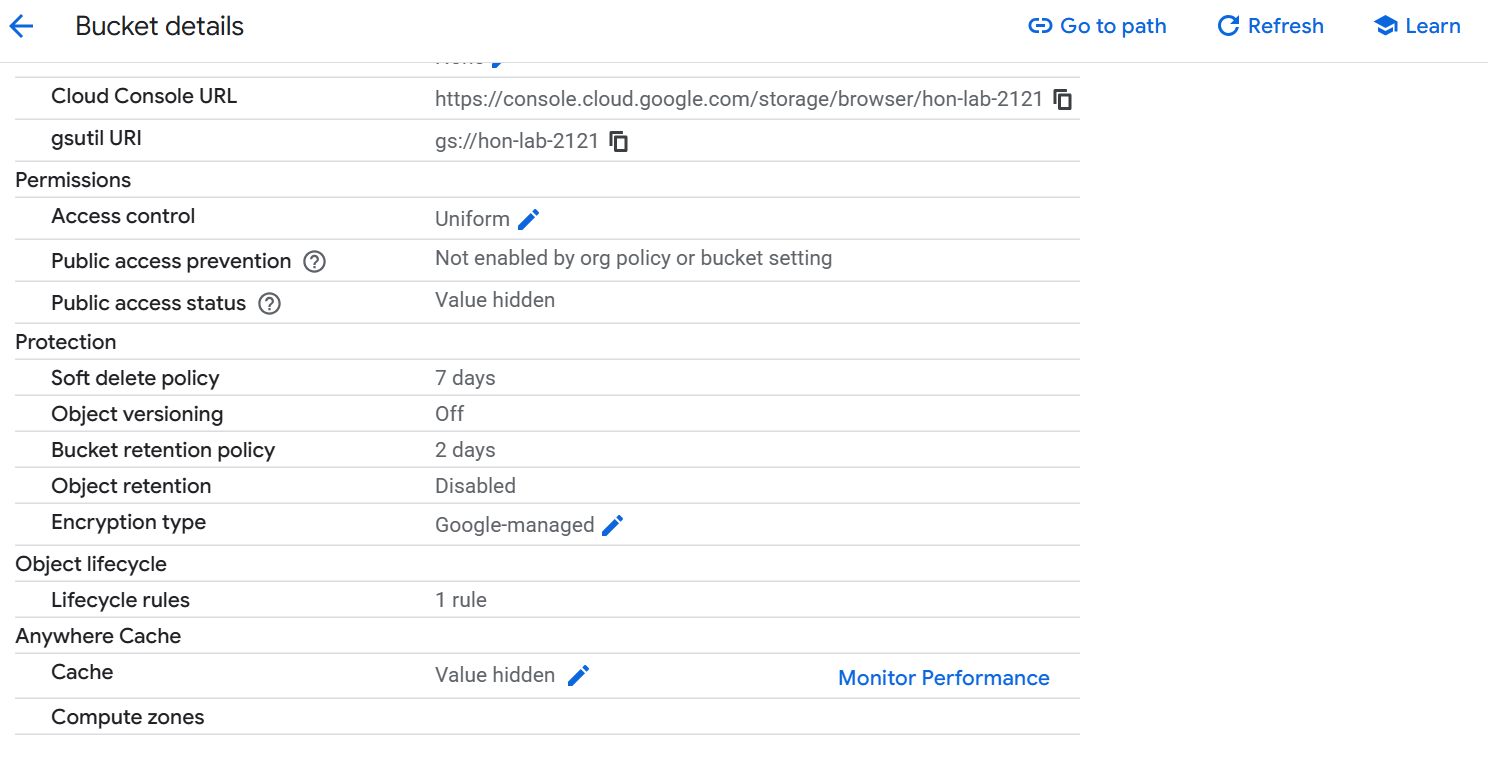










A screenshot of a computer

AI-generated content may be incorrect.

