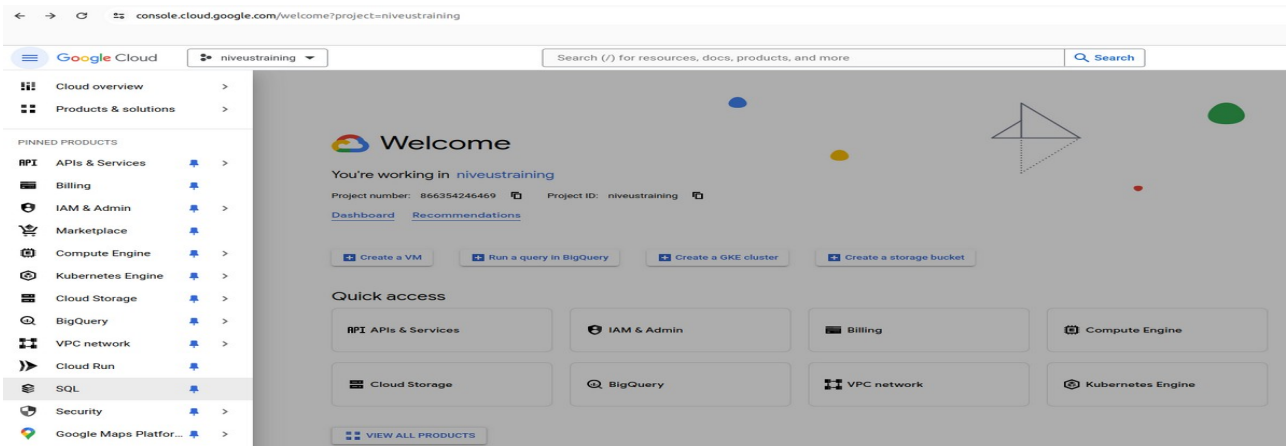


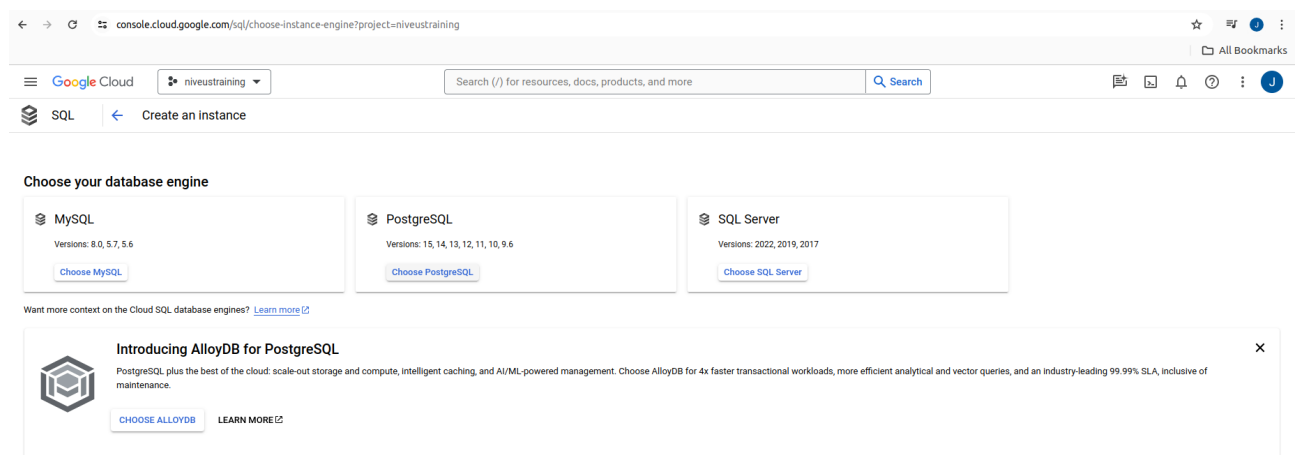
# Assignment - 2

## Create a Cloud SQL database (PostgreSQL) from the GCP Console

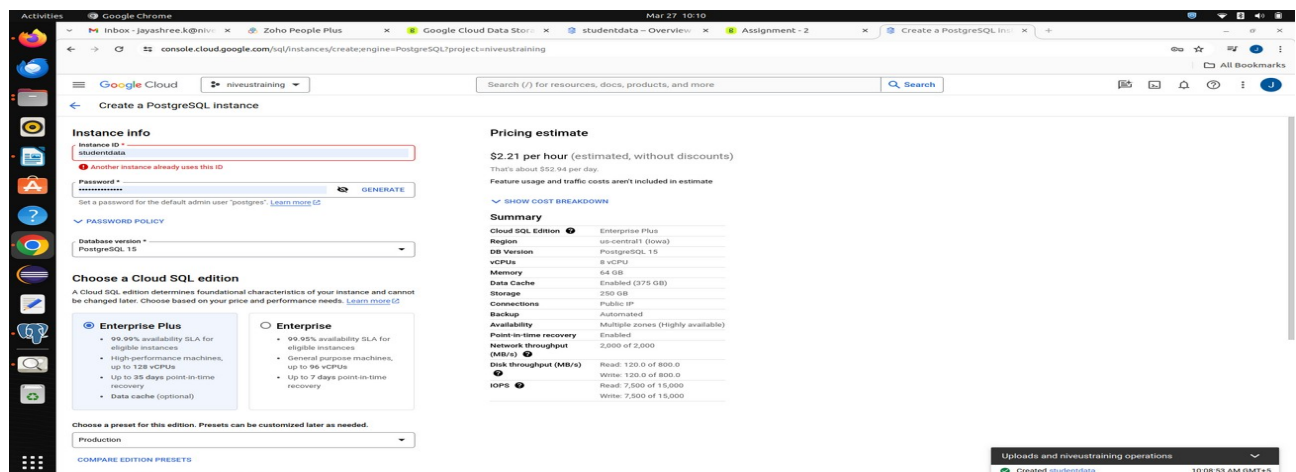
Step 1: Click on SQL option.



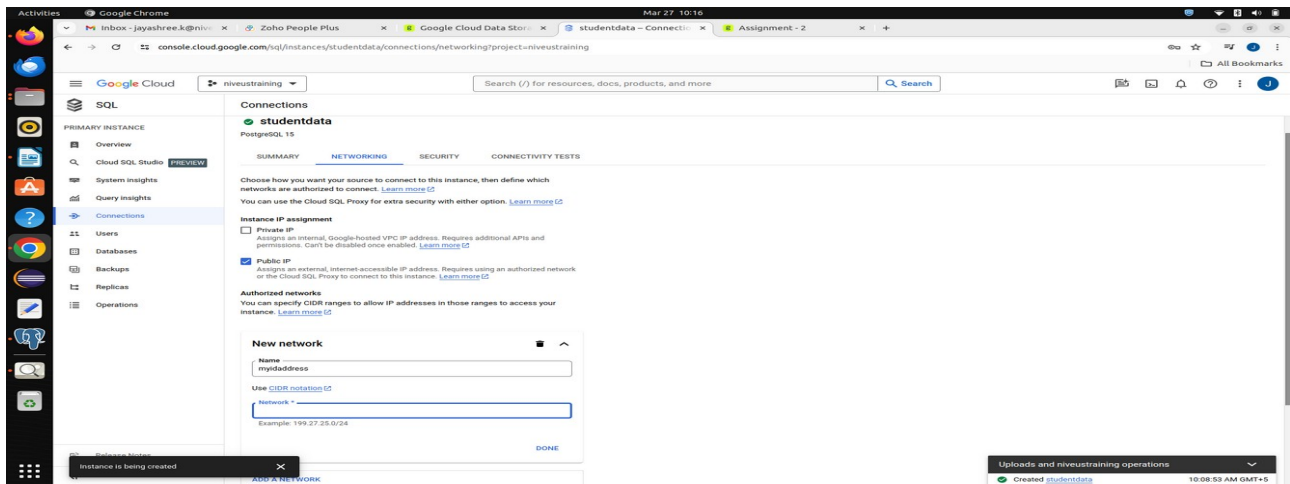
Step 2: Click on create instance and then select PostgreSQL



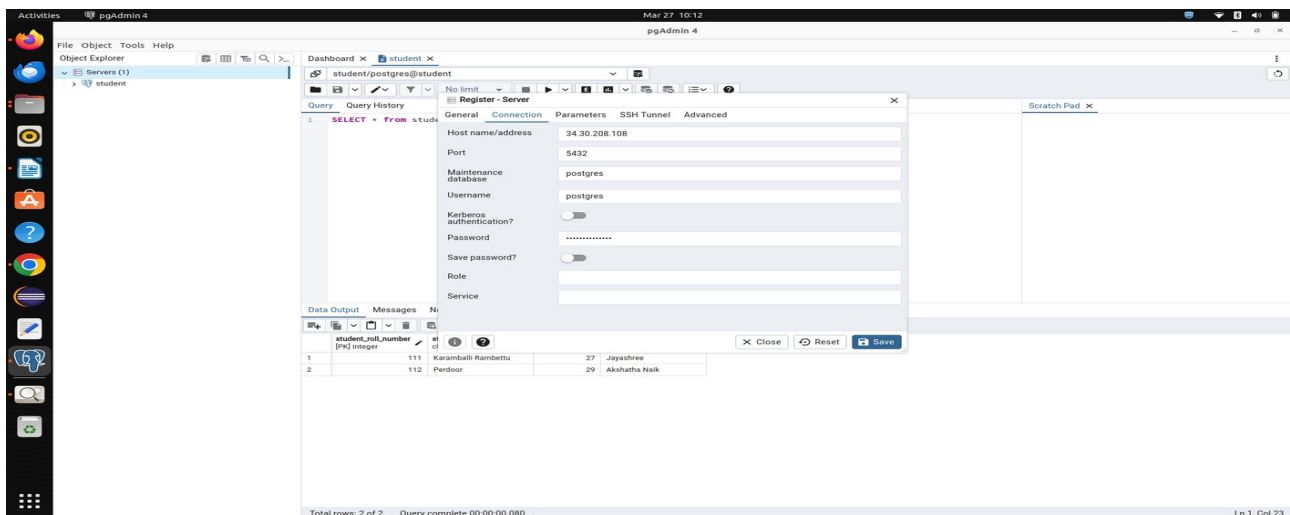
Step 3: provide required information and create



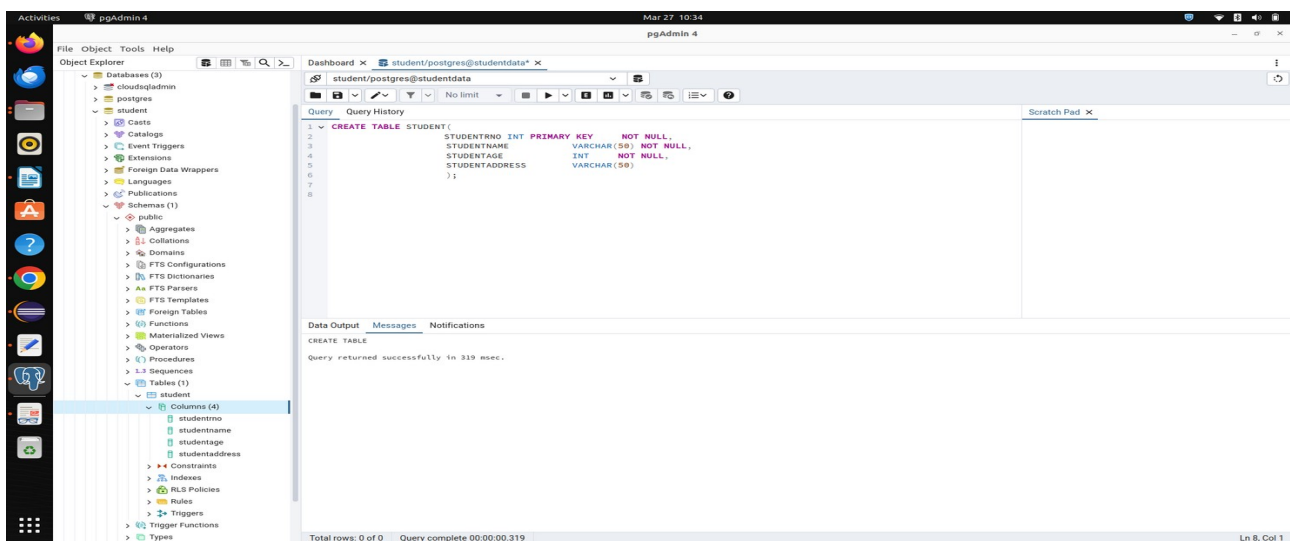
Step 4: Add a connection with your ip address , click on done and then save.



Step 5: Open pgAdmin and register the server with ip of your created instance from GCP



Step 6: Create the Database and add table and create table by using Query Tool.



## Step 7: Insert data into the table by writing an insert statement.

The screenshot shows the pgAdmin 4 interface. On the left, the Object Explorer displays the database structure, including the 'student' database and its 'student' table. The main pane shows the SQL query editor with the following SQL code:

```
1 CREATE TABLE STUDENT(  
2     STUDENTRNO INT PRIMARY KEY NOT NULL,  
3     STUDENTNAME VARCHAR(50) NOT NULL,  
4     STUDENTAGE INT NOT NULL,  
5     STUDENTADDRESS VARCHAR(50)  
6 );  
7  
8 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (101, 'Jayashree', 27, 'Karamballi');  
9 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (102, 'Akshatha', 26, 'Perdoor');  
10 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (103, 'Akshatha Naik', 27, 'Hebri');  
11 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (104, 'Pragna', 27, 'Kintmulki');  
12 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (105, 'Anusha', 27, 'Malpe');  
13 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (106, 'Shilpa', 26, 'Athradi');  
14
```

The Data Output pane shows the result of the INSERT statement:

```
INSERT 0 1  
Query returned successfully in 307 msec.
```

Total rows: 0 of 0 Query complete 00:00:00.307 Ln 8, Col 1

## Step 8: Execute INSERT, UPDATE, SELECT and DELETE commands.

The screenshot shows the pgAdmin 4 interface with the following SQL code in the query editor:

```
1 CREATE TABLE STUDENT(  
2     STUDENTRNO INT PRIMARY KEY NOT NULL,  
3     STUDENTNAME VARCHAR(50) NOT NULL,  
4     STUDENTAGE INT NOT NULL,  
5     STUDENTADDRESS VARCHAR(50)  
6 );  
7  
8 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (101, 'Jayashree', 27, 'Karamballi');  
9 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (102, 'Akshatha', 26, 'Perdoor');  
10 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (103, 'Akshatha Naik', 27, 'Hebri');  
11 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (104, 'Pragna', 27, 'Kintmulki');  
12 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (105, 'Anusha', 27, 'Malpe');  
13 INSERT INTO STUDENT (STUDENTRNO, STUDENTNAME, STUDENTAGE, STUDENTADDRESS) VALUES (106, 'Shilpa', 26, 'Athradi');  
14  
15 SELECT * FROM STUDENT;  
16  
17 UPDATE STUDENT SET STUDENTAGE = 28 WHERE STUDENTRNO = 103;  
18  
19 DELETE FROM STUDENT WHERE STUDENTRNO = 106;
```

The Data Output pane shows the result of the SELECT statement:

studentrno	studentname
101	Jayashree
102	Akshatha
103	Pragna
104	Anusha
105	Akshatha Naik

Total rows: 5 of 5 Query complete 00:00:01.686 Ln 16, Col 1