Assignment – 7:

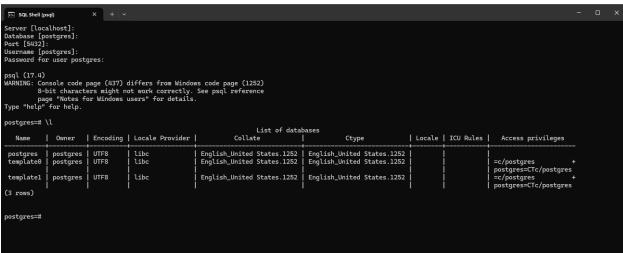
Tutedude: Course: Python

Module 12:

1. Installed PostgreSQL

2. Creating a Database

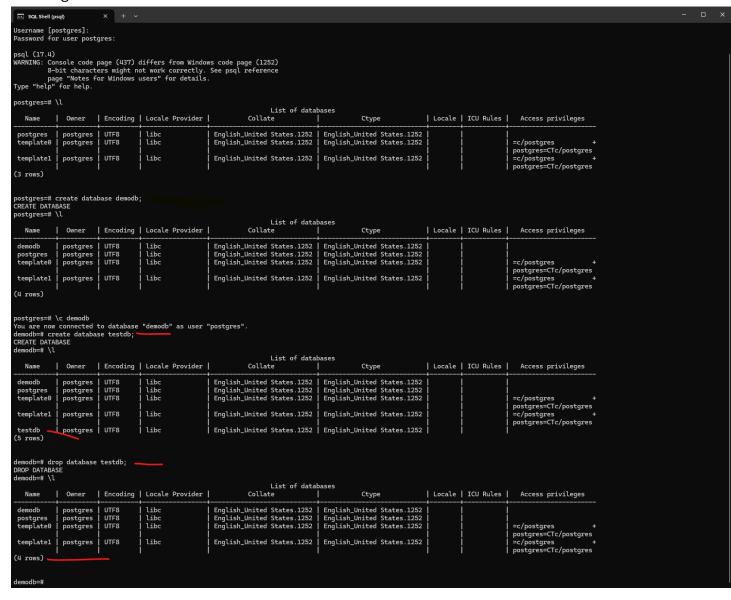
• Initial Default databases present:



Created a new database named demodb:



• Deleting a database testdb:



• Create a Table and Insert data into the table:

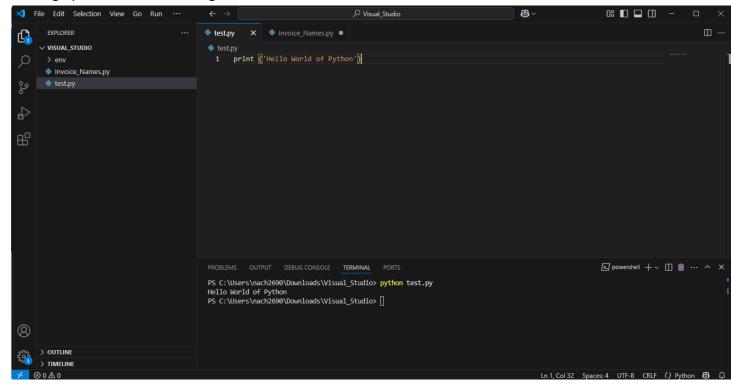
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SQL Shell (psql)
demodb=# CREATE TABLE students(name text, number int, age int);
CREATE TABLE
demodb=# \d
         List of relations
           Name
 Schema |
                   | Type
                             Owner
public | students | table | postgres
(1 row)
demodb=# INSERT INTO studetns(name,number,age) values('Peter',02341,26);
ERROR: relation "studetns" does not exist
LINE 1: INSERT INTO studetns(name,number,age) values('Peter',02341,2...
demodb=# INSERT INTO students(name,number,age) values('Peter',02341,26); —
INSERT 0 1
demodb=# INSERT INTO students(name,number,age) values('Samuel',03258,31);
INSERT 0 1
demodb=#
```

• Retrieving data from database and deleting contents in the table:

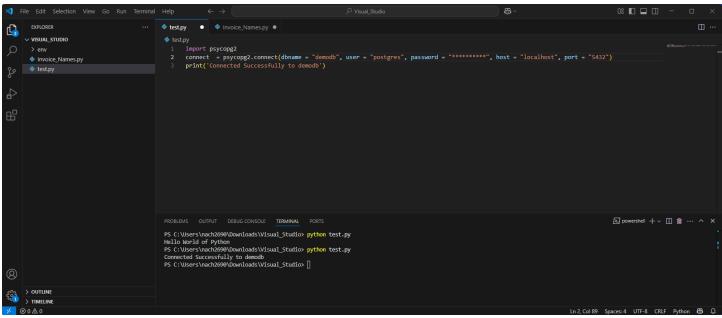
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SQL Shell (psql)
demodb=#
demodb=#
demodb=#
demodb=# SELECT * FROM Students;
  name | number | age
 Peter |
            2341 | 26
 Samuel |
            3258 | 31
(2 rows)
demodb=# SELECT name FROM students;
  name
 Peter
 Samuel
(2 rows)
demodb=# SELECT * FROM Students where name = 'Samuel';
  name | number | age
 Samuel | 3258 | 31
(1 row)
demodb=# SELECT * FROM Students where age < 30;</pre>
 name | number | age
 Peter |
           2341 | 26
(1 row)
demodb=# TRUNCATE TABLE students;
TRUNCATE TABLE
demodb=# \d
          List of relations
 Schema | Name | Type | Owner
 public | students | table | postgres
(1 row)
demodb=# SELECT * FROM Students;
 name | number | age
(0 rows)
demodb=#
```

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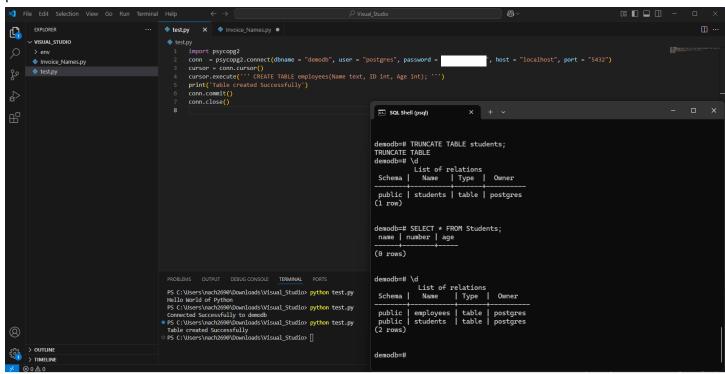
• Setting up virtualenv & Testing Visual Code:



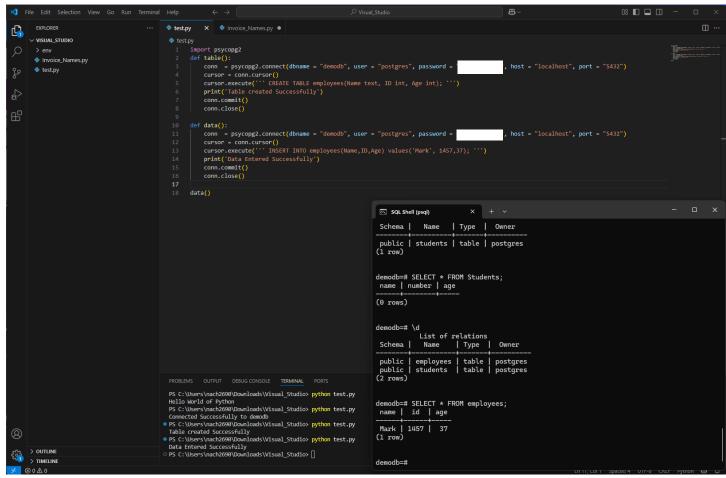
Connecting to the database in Visual Studio Code using psycopg2:



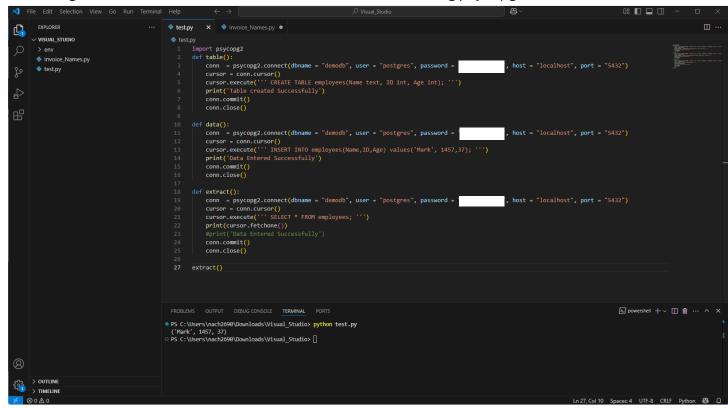
 Creating table using python in Visual Studio Code using psycopg2: We can also see psql powershell if the table is created in the demodb.



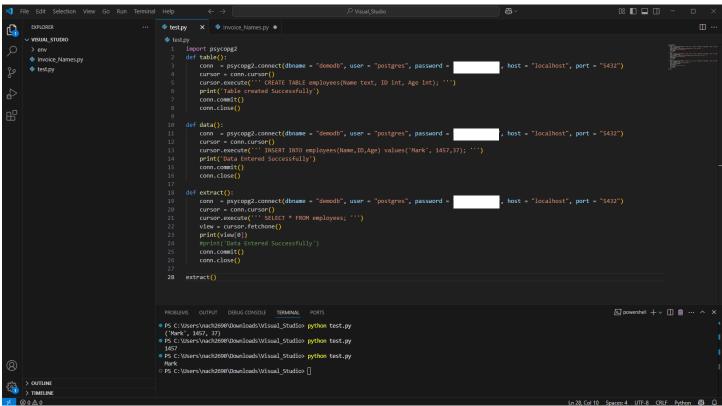
 Inserting the data using python in Visual Studio Code using psycopg2: We can also see psql powershell if the employee is added in the employees Table.



• Extracting the data from the database in Visual Studio Code using psycopg2:



• Selecting choice of positions in the tuple:



• Adding the input from the user in Visual Studio Code using psycopg2: You can see the inputs in the terminal and the extracted fetchall output to see all the records and check the latest is added.

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