

Lab - 1

SQL_Assignment_1

IT214 Database Management System, Autumn'2020; Instructor: minal_bhise@daiict, TA: mayank@daiict

- Objectives:**
- I) Create Schema.
 - II) Create Table and Load data into tables.
 - III) Run simple queries.

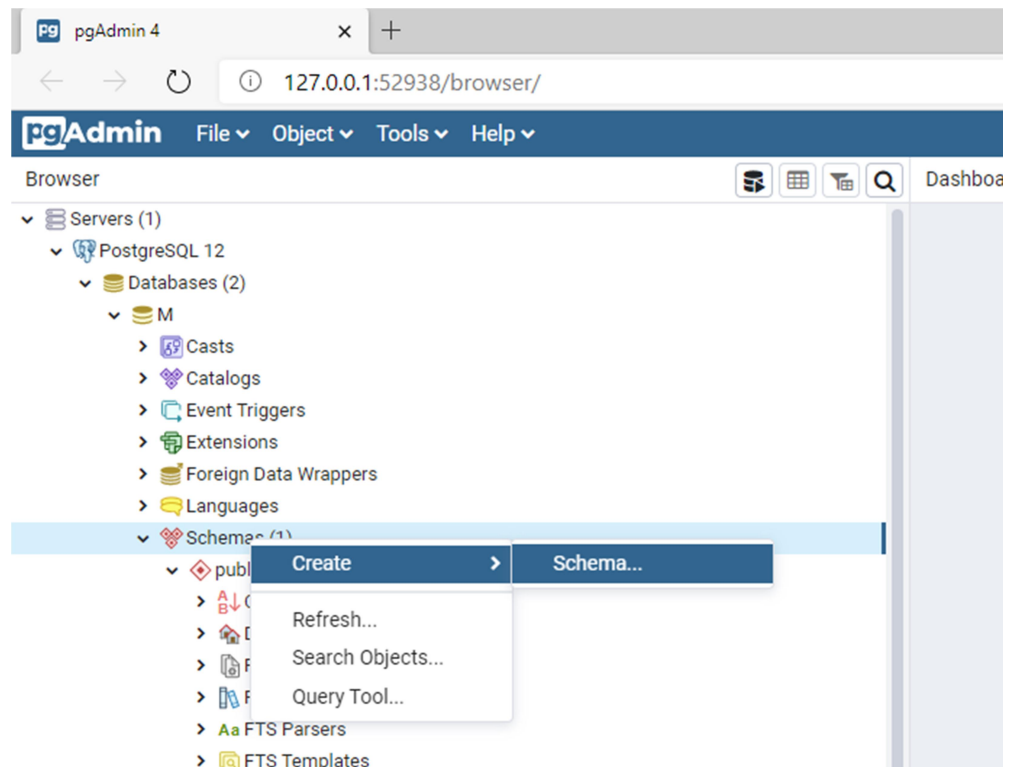
Submission: Each student team need to upload a **single .pdf** file which will contain following things for all the queries listed in your specific section's lab file.

- 1) English query and SQL Query in the given sequence.
- 2) Screenshot of results.
- 3) Count of tuples in the results.

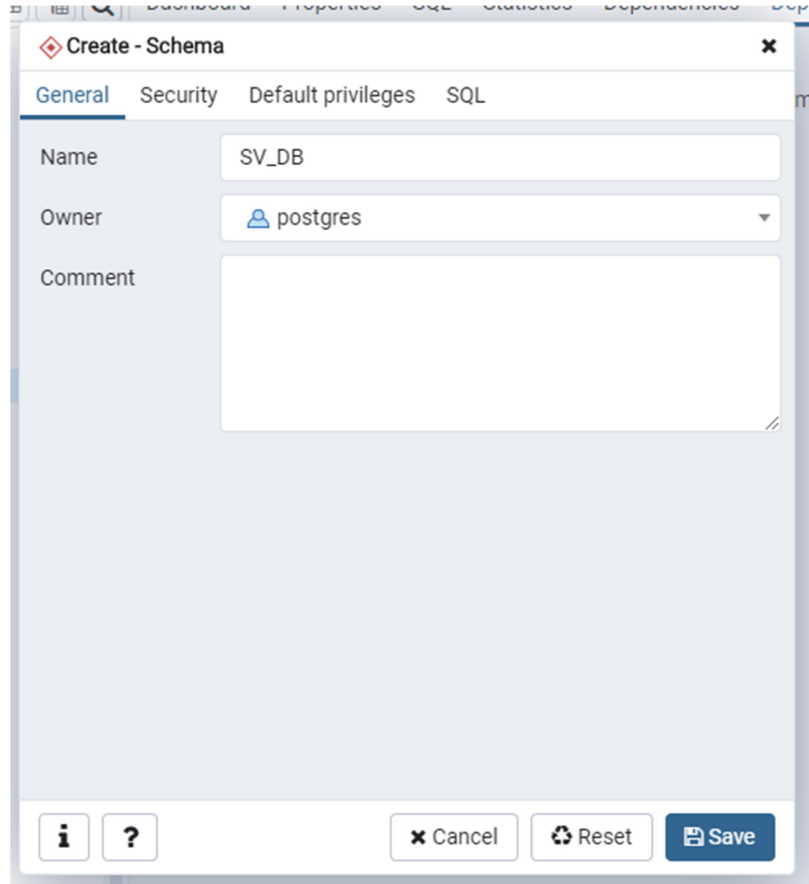
I. Create Schema:

Create a new Schema inside your database created in last lab. Name it SV_DB (Smart Vehicle DB)

- a. Go to Schema => Right Click => Create => Schema



- b. Name it => SV_DB
Press **Save**.



- c. Other way to Create Schema and Select that Schema using SQL commands.

Open SQL Tool window from Main menu of PgAdmin after connecting/opening your Database. **OR** while using SQL Shell and Type following to create Schema.

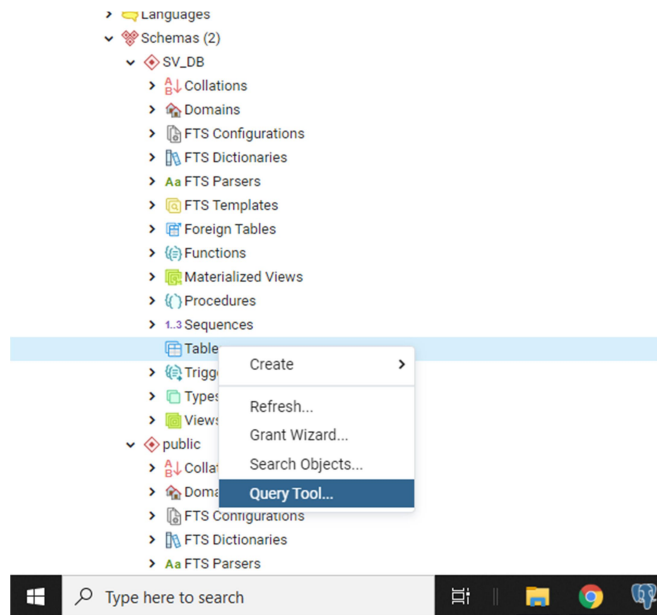
#Create Schema needs to be done only once.

CREATE SCHEMA SV_DB;

#Set SEARCH_PATH command needs to be run **first** before executing other queries, each time PgAdmin is started. No need to re-run it before every query for that session.

SET SEARCH_PATH TO SV_DB;

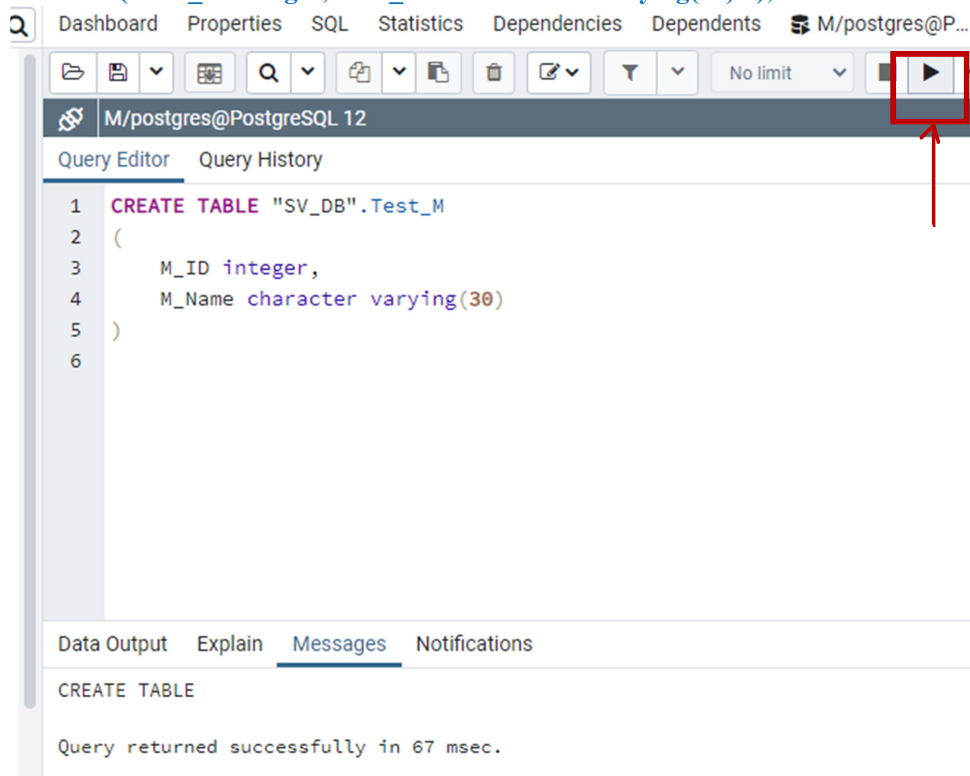
d. GUI - Right Click Tables => Select Query Tool



II. Create following tables for your database using, Create Statements provided in the Moodle for your assigned sections.

a. Create Table

**CREATE TABLE "SV_DB".Test_M
(M_ID integer, M_Name character varying(30));**



b. Load Data

```
COPY Test_M
FROM '/Users/macuser/postgres-data.csv'
DELIMITER ',';
Or
INSERT INTO "SV_DB".test_m
(m_id, m_name) VALUES (5, 'Mayank');
```

The screenshot shows the PostgreSQL Query Editor interface. The top menu bar includes Dashboard, Properties, SQL, Statistics, Dependencies, and Dependents. The toolbar contains icons for file operations, search, and execution. The main area is titled 'M/postgres@PostgreSQL 12' and shows the 'Query Editor' tab. The query being executed is:

```
1 INSERT INTO "SV_DB".test_m(
2   m_id, m_name)
3   VALUES (5, 'Mayank');
```

Below the query editor, the 'Messages' tab is selected, showing the execution result:

```
INSERT 0 1
Query returned successfully in 93 msec.
```

c. Run Queries

```
select * from Test_M;
```

The screenshot shows the PostgreSQL Query Editor interface. The top menu bar includes Dashboard, Properties, SQL, Statistics, Dependencies, and Dependents. The toolbar contains icons for file operations, search, and execution. The main area is titled 'M/postgres@PostgreSQL 12' and shows the 'Query Editor' tab. The query being executed is:

```
1 SET SEARCH_PATH TO "SV_DB";
2
3 SELECT * FROM TEST_M;
```

Below the query editor, the 'Data Output' tab is selected, showing the results of the query:

	m_id integer	m_name character varying (30)
1	1	mayank
2	2	mayank2