Lab 12: PostgreSQL Database Administration

Parth Kalkar

- Q1. Create a new user and grant them admin rights.
 - To do this task we use the following commands
 - 1. \$ sudo su postgres -c "createuser parth"
 - 2. \$ sudo -u postgres psql -c "ALTER USER parth WITH SUPERUSER;"

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- Q2. Create a new database, switch to a new database and create a table in your new database.
 - To do the following task we need to use the following commands
 - 1. \$ sudo su postgres -c "createdb database"
 - 2. \$ sudo -u postgres psql -c "\c database"
 - 3. \$ sudo -u postgres psql -c "

```
CREATE TABLE t1 (
user_id serial PRIMARY KEY,
name VARCHAR(50) UNIQUE NOT NULL,
password VARCHAR ( 50 ) NOT NULL
);"
```

```
parth@GL62M-7RDX:~/Desktop/PostgresSQL$ sudo su - postgres -c "createdb database"
parth@GL62M-7RDX:~/Desktop/PostgresSQL$ sudo -u postgres psql -c "\c database"
You are now connected to database "database" as user "postgres".
parth@GL62M-7RDX:~/Desktop/PostgresSQL$ sudo -u postgres psql -c "
> CREATE TABLE t1 (
> user_id serial PRIMARY KEY,
> name VARCHAR(50) UNIQUE NOT NULL,
> password VARCHAR ( 50 ) NOT NULL
> );"
CREATE TABLE
```

- Q3. Backup your new database by naming it.
 - To do the following task we need to use the command
 - 1. \$ sudo su postgres psql -c "pg_dump database > database.sql"

```
parth@GL62M-7RDX:~/Desktop/PostgresSQL$ sudo su - postgres psql -c "pg_dump database > database.sql"
```

- Q4. Delete your new database and restore it from the backup which you created in 3rd question.
 - To do the following task we need to the commands
 - 1. \$ sudo su postgres psql -c "dropdb database"
 - 2. \$ sudo su postgres psql -c "psql database < database.sql"

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List of relations
Schema | Name | Type | Owner

public | t1 | table | postgres
(1 row)
```