Mysql

Use below commands to install

sudo apt update sudo mysql_secure_installation utility (2 y n n n y) sudo apt update sudo apt upgrade (Y) **To start mysql.** sudo systemctl start mysql sudo mysql -u root

Create USER 'username'@'localhost' identified by 'welcome'; to create a user who's name is user @ localhost, we use identified means assigning the password to newly created user.

GRANT ALL PRIVILEGES ON database_name.* TO 'username'@'localhost'; in our case username is nayan and database is * so it will be (*.*)
Use exit to exit the mysgl server.

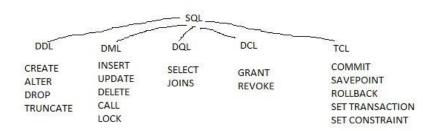
Use **sudo mysql -u nayan -p** to enter in database we just using password.

```
user@user-virtual-machine:~$ sudo mysql -u nayan -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.26-0ubuntu0.20.04.3 (Ubuntu)
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Type 'help;' or '\h' for help. Type '\c' to clear the current input starmysql>
```

Use **SELECT USER()**; to check which user I am using right now.

Use **SELECT DATABASE()**; to see which database I am currently using.



CREATE DATABASE database; to create a new database. USE databasename; to use the database we created. Use ctrl L or clear scr; to clear the screen.

CREATE TABLE EmpData (Emp_id int, Fname varchar (70), Lname varchar (70), city varchar (200), Cnumber int, Salary int, email varchar(100), Gender varchar (70), Dep varchar (100)); to create a table with table name given in parenthesis.

```
mysql> CREATE TABLE EmpData(Emp_id int, Fname varchar(70), Lname varchar(70), c
ity varchar(200), Cnumber int, Salary int, email varchar(100), Gender varchar(7
0), Dep varchar (100));
```

Insert into EmpData values (1, 'Nayan', 'Gadhari', 'Mumbai', 1234567890, 25000, 'gadharinayan@gmail.com', 'Male', 'IT');

UPDATE EmpData set Emp id =1; where Fname = 'Nayan' and Lname = 'Gadhari'

```
| Emp_id | Fname | Lname | city | Cnumber | Salary | email
| Gender | Dep |
+-----
| 1 | nayan | gadhari | mumbai | 420 | 25000 | gadharinayan@gmail.com
| male | IT |
-+----
1 row in set (0.00 sec)
mysql> UPDATE Empdata set email = 'nayan_gadhari@thbs.com' WHERE Emp_id = 1;
ERROR 1146 (42502): Table 'temp1.Empdata' doesn't exist
mysql> UPDATE EmpData set email = 'nayan gadhari@thbs.com' WHERE Emp id = 1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM EmpData;
| Emp_id | Fname | Lname | city | Cnumber | Salary | email
| Gender | Dep |
| 1 | nayan | gadhari | mumbai | 420 | 25000 | nayan_gadhari@thbs.com
1 row in set (0.00 sec)
```

SELECT * FROM EmpData ORDER BY Salary Desc; to sort table according to salary in descending order.

```
mysql>
mysql> SELECT * FROM EmpData ORDER BY Salary Desc;
  | Emp_id | Fname | Lname | city | Cnumber | Salary | email | Gender | Dep |
 6 | Steve | Roggers | Broklyn | 987 | 7697800 | setee_r
rs@gmail.com | M | Accounts |
     9 | Tony | Stark | New York | 225 | 169290 | tony_st
gmail.com | M | Finance |
     3 | Natasha | Romanof | St. Petersberg | 783 | 100000 | natasha
anof@gmail.com | F | HR |
| 5 | Bruse | Banner | Kolkata | 536 | 76900 | bruse_b
r@gmail.com | M | BOD |
| 2 | barry | allen | mumbai | 783 | 67000 | barry_a
@gmail.com | M | Opreation |
| 1 | nayan | gadhari | mumbai
ri@thbs.com | male | IT |
                                | 420 | 25000 | nayan_g
| 4 | Hope | Wasp | New Jersy | 783 | 10000 | hope_wa
mail.com | F | IT |
7 rows in set (0.00 sec)
```

SELECT COUNT(city) FROM EmpData WHERE Salary >= 25000 and Dep = 'IT';

```
mysql> SELECT COUNT(Salary) FROM EmpData WHERE Salary >= 25000 and Dep = 'IT';

+-----+
| COUNT(Salary) |
+-----+
| 1 |
1 |
+-----+
1 row in set (0.01 sec)
```

SELECT SUM(Salary) AS 'Total Salary' FROM EmpData; SELECT AVG(Salary) AS 'Average Salary' FROM EmpData; SELECT MIN(Salary) AS 'Minimum Salary' FROM EmpData; SELECT MAX(Salary) AS 'Maximum Salary' FROM EmpData;

SELECT * FROM EmpData WHERE Salary = (SELECT MIN(Salary) FROM EmpData);