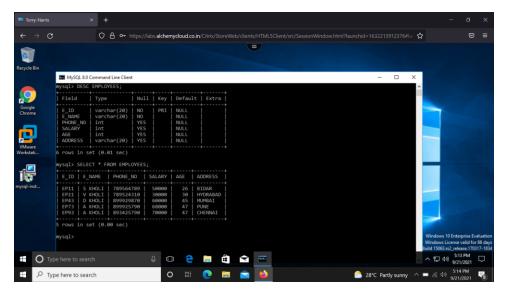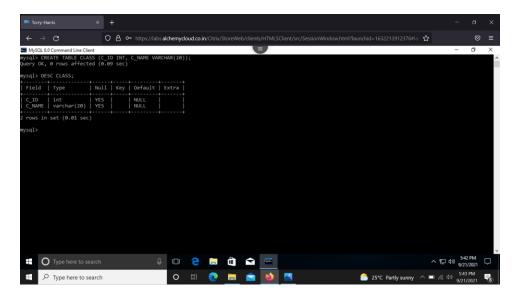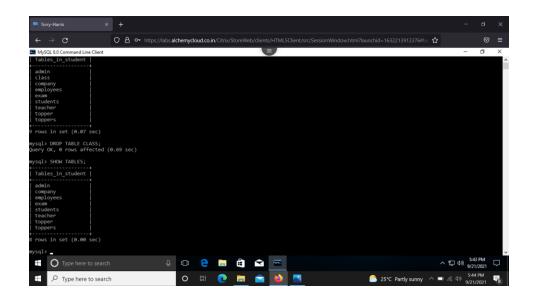SQL:

EMPLOYEE TABLE

SQL COMMANDS

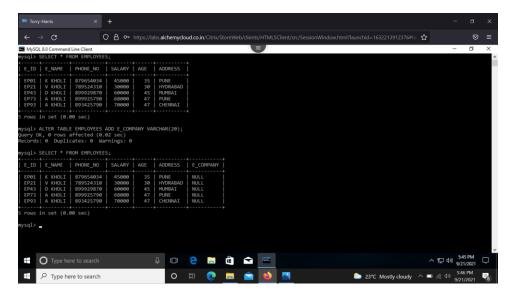1. DDL

CREATE:

DROP:

ALTER:

2.DML

INSERT:

UPDATE:

DELETE:

3.DQL:

SELECT

AGGREGATE FUNCTIONS:

MySQL 8.0 Command Line Client

```
EP11 |  S KHOLI |  789564789 |  50000 |  26 |  BIDAR    |
EP21 |  V KHOLI |  789524310 |  30000 |  30 |  HYDRABAD |
EP43 |  D KHOLI |  899929870 |  60000 |  45 |  MUMBAI   |
EP73 |  A KHOLI |  899925790 |  68000 |  47 |  PUNE     |
EP93 |  A KHOLI |  893425790 |  70000 |  47 |  CHENNAI  |
+------+----------+------------+--------+-----+-----------+
5 rows in set (0.00 sec)

mysql> SELECT COUNT(*) FROM EMPLOYEES;
+----------+
| COUNT(*) |
+----------+
|        5 |
+----------+
1 row in set (0.00 sec)

mysql> SELECT SUM(AGE) FROM EMPLOYEES;
+----------+
| SUM(AGE) |
+----------+
|      195 |
+----------+
1 row in set (0.00 sec)

mysql> SELECT AVG(AGE) FROM EMPLOYEES;
+----------+
| AVG(AGE) |
+----------+
|  39.0000 |
+----------+
1 row in set (0.00 sec)

mysql>
```

MySQL 8.0 Command Line Client

```
EP11 |  S KHOLI |  789564789 |  50000 |  26 |  BIDAR    |
EP21 |  V KHOLI |  789524310 |  30000 |  30 |  HYDRABAD |
EP43 |  D KHOLI |  899929870 |  60000 |  45 |  MUMBAI   |
EP73 |  A KHOLI |  899925790 |  68000 |  47 |  PUNE     |
EP93 |  A KHOLI |  893425790 |  70000 |  47 |  CHENNAI  |
+------+----------+------------+--------+-----+-----------+
5 rows in set (0.00 sec)

mysql> SELECT COUNT(E_NAME) FROM EMPLOYEES;
+---------------+
| COUNT(E_NAME) |
+---------------+
|             5 |
+---------------+
1 row in set (0.00 sec)

mysql> SELECT MIN(SALARY) FROM EMPLOYEES;
+-------------+
| MIN(SALARY) |
+-------------+
|       30000 |
+-------------+
1 row in set (0.00 sec)

mysql> SELECT MAX(SALARY) FROM EMPLOYEES;
+-------------+
| MAX(SALARY) |
+-------------+
|       70000 |
+-------------+
1 row in set (0.00 sec)

mysql>
```

MySQL 8.0 Command Line Client

```
| E_ID | E_NAME  | PHONE_NO  | SALARY | AGE | ADDRESS  |
| EP11 | S KHOLI | 789564789 | 50000  | 26  | BIDAR    |
| EP21 | V KHOLI | 789524310 | 30000  | 30  | HYDRABAD |
| EP43 | D KHOLI | 899929870 | 60000  | 45  | MUMBAI   |
| EP73 | A KHOLI | 899925790 | 68000  | 47  | PUNE     |
| EP93 | A KHOLI | 893425790 | 70000  | 47  | CHENNAI  |
5 rows in set (0.00 sec)

mysql> SELECT COUNT(E_ID) FROM EMPLOYEES GROUP BY E_NAME;
+-------------+
| COUNT(E_ID) |
+-------------+
|           1 |
|           1 |
|           1 |
|           2 |
+-------------+
4 rows in set (0.00 sec)

mysql> SELECT COUNT(E_ID), E_NAME FROM EMPLOYEES GROUP BY E_NAME;
+-------------+---------+
| COUNT(E_ID) | E_NAME  |
+-------------+---------+
|           1 | S KHOLI |
|           1 | V KHOLI |
|           1 | D KHOLI |
|           2 | A KHOLI |
+-------------+---------+
4 rows in set (0.00 sec)

mysql>
```

Type here to search

5:24 PM
9/21/2021

Type here to search

25°C Partly sunny

5:25 PM
9/21/2021

MySQL 8.0 Command Line Client

```
| EP11 | S KHOLI | 789564789 | 50000  | 26  | BIDAR    |
| EP21 | V KHOLI | 789524310 | 30000  | 30  | HYDRABAD |
| EP43 | D KHOLI | 899929870 | 60000  | 45  | MUMBAI   |
| EP73 | A KHOLI | 899925790 | 68000  | 47  | PUNE     |
| EP93 | A KHOLI | 893425790 | 70000  | 47  | CHENNAI  |
5 rows in set (0.00 sec)

mysql> SELECT E_ID, E_NAME FROM EMPLOYEES ORDER BY SALARY;
+------+---------+
| E_ID | E_NAME  |
+------+---------+
| EP21 | V KHOLI |
| EP11 | S KHOLI |
| EP43 | D KHOLI |
| EP73 | A KHOLI |
| EP93 | A KHOLI |
+------+---------+
5 rows in set (0.00 sec)

mysql> SELECT E_ID, E_NAME FROM EMPLOYEES ORDER BY SALARY DESC;
+------+---------+
| E_ID | E_NAME  |
+------+---------+
| EP93 | A KHOLI |
| EP73 | A KHOLI |
| EP43 | D KHOLI |
| EP11 | S KHOLI |
| EP21 | V KHOLI |
+------+---------+
5 rows in set (0.00 sec)

mysql>
```

Type here to search

5:26 PM
9/21/2021

Type here to search

25°C Partly sunny

5:27 PM
9/21/2021
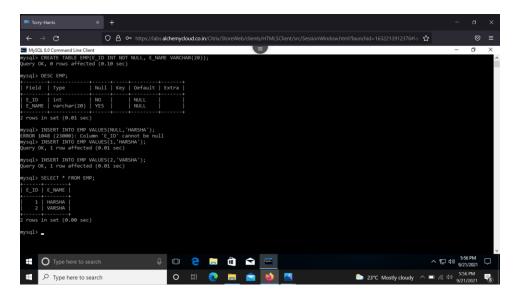
SQL CONSTRAINT:

1.NOT NULL

2.UNIQUE

```
mysql> CREATE TABLE EMPP(EMPP_ID INT UNIQUE, EMPP_NAME VARCHAR(20));
Query OK, 0 rows affected (0.07 sec)

mysql> DESC EMPP;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| EMPP_ID   | int         | YES  | UNI | NULL    |       |
| EMPP_NAME | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
2 rows in set (0.01 sec)

mysql> INSERT INTO EMPP VALUES(2,'VARSHA');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EMPP VALUES(2,'VARSHA');
ERROR 1062 (23000): Duplicate entry '2' for key 'empp.EMPP_ID'
mysql> INSERT INTO EMPP VALUES(5,'VISHNU');
Query OK, 1 row affected (0.07 sec)

mysql> SELECT * FROM EMPP;
+---------+-----------+
| EMPP_ID | EMPP_NAME |
+---------+-----------+
|       2 | VARSHA    |
|       5 | VISHNU    |
+---------+-----------+
2 rows in set (0.00 sec)

mysql>
```