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## Lab 1

Create database <database-name>;

show databases;

use <database-name>;



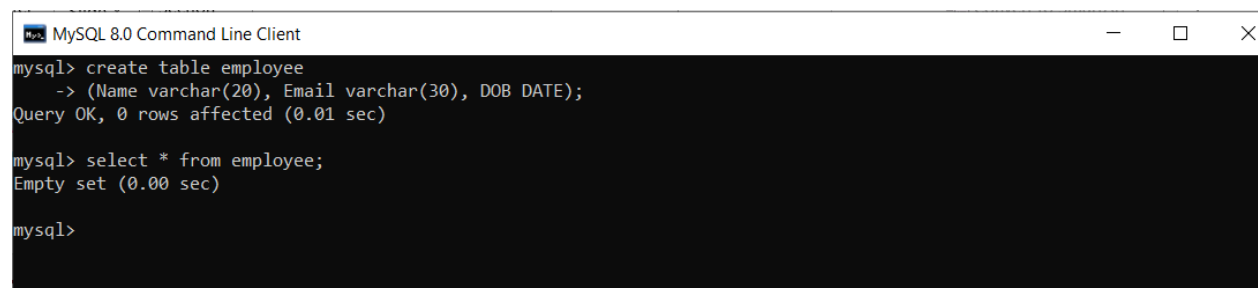
```
mysql> create database lab;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| hitendra |
| information_schema |
| lab      |
| mysql    |
| performance_schema |
| sys      |
| we       |
+-----+
7 rows in set (0.00 sec)

mysql> use lab
Database changed
```

## DDL Commands

1) create table <table-name>;

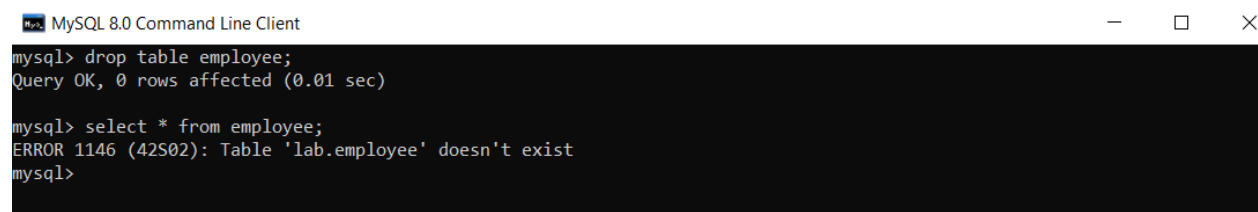


```
mysql> create table employee
-> (Name varchar(20), Email varchar(30), DOB DATE);
Query OK, 0 rows affected (0.01 sec)

mysql> select * from employee;
Empty set (0.00 sec)

mysql>
```

2) Drop table <table-name>;



```
mysql> drop table employee;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from employee;
ERROR 1146 (42S02): Table 'lab.employee' doesn't exist
mysql>
```

### 3) Alter table <table-name>

a) add(newcol1 data-type,newcol2 data-type);

```
MySQL 8.0 Command Line Client
mysql> alter table employee
-> add(salary int);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from employee;
+-----+-----+-----+-----+
| Name          | Email                | DOB          | salary |
+-----+-----+-----+-----+
| Hitendra sisodia | hitendra18@gmail.com | 2003-09-21   | NULL   |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

b) modify col1 newdata-type;

```
MySQL 8.0 Command Line Client
mysql> alter table employee
-> modify Name varchar(50);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Name  | varchar(50)   | YES  |     | NULL    |       |
| Email | varchar(40)   | YES  |     | NULL    |       |
| DOB   | date          | YES  |     | NULL    |       |
| salary | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

### 4) truncate table <table-name>;

```
MySQL 8.0 Command Line Client
mysql> truncate table employee;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from employee;
Empty set (0.00 sec)

mysql>
```

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## Lab 1

### DML Commands

1) insert into <table-name> (col1,col2,col3.....coln) values(val1,val2,val3.....valn)

```
MySQL 8.0 Command Line Client
mysql> insert into employee (Name, Email, DOB, salary)
  -> values("Hitendra Sisodia","hitendra@gamil.com", "2003-09-21" , 1000000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee (Name, Email, DOB, salary)
  -> values("Ujesh","ujesh@gamil.com", "2004-09-21" , 1000000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee (Name, Email, DOB, salary)
  -> values("Himanshu","Himanshu@gamil.com", "2003-10-21" , 10);
Query OK, 1 row affected (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+-----+
| Name          | Email          | DOB          | salary |
+-----+-----+-----+-----+
| Hitendra Sisodia | hitendra@gamil.com | 2003-09-21 | 1000000 |
| Ujesh          | ujesh@gamil.com  | 2004-09-21 | 1000000 |
| Himanshu       | Himanshu@gamil.com | 2003-10-21 | 10      |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

2) update <table-name> set <col1=val1, col2=val2,.....coln=valn> where <condition>

```
MySQL 8.0 Command Line Client
mysql> update employee
  -> SET Name = "Himanshu Singh", salary = 1000
  -> WHERE Email = "Himanshu@gamil.com";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from employee;
+-----+-----+-----+-----+
| Name          | Email          | DOB          | salary |
+-----+-----+-----+-----+
| Hitendra Sisodia | hitendra@gamil.com | 2003-09-21 | 1000000 |
| Ujesh          | ujesh@gamil.com  | 2004-09-21 | 1000000 |
| Himanshu Singh  | Himanshu@gamil.com | 2003-10-21 | 1000    |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

3) delete form <table-name> where <condition>

```
MySQL 8.0 Command Line Client
mysql> delete from employee
  -> where name = "Himanshu Singh";
Query OK, 1 row affected (0.01 sec)

mysql> select * from employee;
+-----+-----+-----+-----+
| Name          | Email          | DOB          | salary |
+-----+-----+-----+-----+
| Hitendra Sisodia | hitendra@gmail.com | 2003-09-21 | 10000000 |
| Ujesh          | ujesh@gmail.com  | 2004-10-11 | 1000000000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```