MYSQL DDL & TCL COMMANDS

VIEW ALL DATABASES:

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| employee           |
| information_schema |
| mydp               |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| world              |
+--------------------+
8 rows in set (0.00 sec)
```

SELECT DATABASE:

```
mysql> use mydp;
Database changed
mysql> create table tbl_employee (eid int(5),ename
varchar(20),esalary int(5));
Query OK, 0 rows affected, 2 warnings (0.03 sec)
```

VIEW THE STRUCTURE :

```
mysql> desc tbl_employee;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| eid     | int         | YES  |     | NULL    |       |
| ename   | varchar(20) | YES  |     | NULL    |       |
| esalary | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

INSERT:

```
mysql> insert into tbl_employee values (101,'aravind',2000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_employee values (102,'Mandhan',3000);
Query OK, 1 row affected (0.00 sec)
```

FETCHING DATA (SELECT) :

```
mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | aravind |    2000 |
|  102 | Mandhan |    3000 |
+------+---------+---------+
2 rows in set (0.00 sec)
```

INSERTING NULL VALUES:

```
mysql> insert into tbl_employee values (103,null,4000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_employee (eid,ename) values
(104,'kumar');
Query OK, 1 row affected (0.00 sec)
```

FETCHING DATA :

```
mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | aravind |    2000 |
|  102 | Mandhan |    3000 |
|  103 | NULL    |    4000 |
```

```
|  104 | kumar    |    NULL |
+------+---------+---------+
4 rows in set (0.00 sec)
```

UPDATING RECORD:

```
mysql> update tbl_employee set ename='madhan' where eid=101;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tbl_employee set ename='Aravind' where eid=102;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

FETCHING DATA:

```
mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    3000 |
|  103 | NULL    |    4000 |
|  104 | kumar   |    NULL |
+------+---------+---------+
4 rows in set (0.00 sec)
```

INSERT USING PARTICULAR COLUMN:

```
mysql> insert into tbl_employee (eid,ename,esalary)
values(105,'dom',6000),(106,'domnic',7000);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

FETCHING DATA:

```
mysql> select *from  tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    3000 |
|  103 | NULL    |    4000 |
|  104 | kumar   |    NULL |
|  105 | dom     |    6000 |
|  106 | domnic  |    7000 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

FETCHING PARTICULAR COLUMN:

```
mysql> select eid,esalary from tbl_employee;
+------+---------+
| eid  | esalary |
+------+---------+
|  101 |    2000 |
|  102 |    3000 |
|  103 |    4000 |
|  104 |    NULL |
|  105 |    6000 |
|  106 |    7000 |
+------+---------+
6 rows in set (0.00 sec)
```

FETCHING DATA BASED ON CONDITION:

```
mysql> select * from tbl_employee where esalary>2000;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  102 | Aravind |    3000 |
|  103 | NULL    |    4000 |
|  105 | dom     |    6000 |
|  106 | domnic  |    7000 |
+------+---------+---------+
4 rows in set (0.00 sec)

mysql> select *from tbl_employee where ename='Aravind';
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  102 | Aravind |    3000 |
+------+---------+---------+
1 row in set (0.00 sec)

mysql> select *from tbl_employee where ename!='Aravind';
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  104 | kumar   |    NULL |
|  105 | dom     |    6000 |
|  106 | domnic  |    7000 |
+------+---------+---------+
4 rows in set (0.00 sec)
```

COMPARING NULL VALUES:(is null,is not null)

```
mysql> select *from tbl_employee where ename is null;
+------+-------+---------+
| eid  | ename | esalary |
+------+-------+---------+
|  103 | NULL  |    4000 |
+------+-------+---------+
1 row in set (0.00 sec)

mysql> select *from tbl_employee where ename is not null;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    3000 |
|  104 | kumar   |    NULL |
|  105 | dom     |    6000 |
|  106 | domnic  |    7000 |
+------+---------+---------+
5 rows in set (0.00 sec)
```

AND OPERATOR :

```
mysql> select *from tbl_employee where ename is not null and
esalary=3000;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  102 | Aravind |    3000 |
+------+---------+---------+
1 row in set (0.00 sec)
```

OR OPERATOR:

```
 mysql> select *from tbl_employee where ename is not null or
esalary=3000;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    3000 |
|  104 | kumar   |    NULL |
|  105 | dom     |    6000 |
|  106 | domnic  |    7000 |
+------+---------+---------+
5 rows in set (0.00 sec)
```

IN OPERATOR:

```
mysql> select *from tbl_employee where eid in(101,102,106);
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    3000 |
|  106 | domnic  |    7000 |
+------+---------+---------+
3 rows in set (0.00 sec)
```

NOT IN OPERATOR:

```
mysql> select *from tbl_employee where eid not in(101,102,106);
+------+-------+---------+
| eid  | ename | esalary |
+------+-------+---------+
|  103 | NULL  |    4000 |
|  104 | kumar |    NULL |
|  105 | dom   |    6000 |
```

```
+------+-------+---------+
3 rows in set (0.00 sec)
```

BETWEEN :

```
mysql> select *from tbl_employee where esalary between 2000 and
4000;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    3000 |
|  103 | NULL    |    4000 |
+------+---------+---------+
3 rows in set (0.00 sec)
```

NOT BETWEEN:

```
mysql> select *from tbl_employee where esalary not between 2000
and 4000;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  105 | dom     |    6000 |
|  106 | domnic  |    7000 |
+------+---------+---------+
2 rows in set (0.00 sec)
```

LIKE OPERATOR:

```
mysql> select * from tbl_employee where ename like 'p%';
Empty set (0.00 sec)
mysql> select * from tbl_employee where ename like 'a%';
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  102 | Aravind |    3000 |
+------+---------+---------+
```

1 row in set (0.00 sec)

NOT LIKE OPERATOR:

mysql> select * from tbl_employee where ename like '_o%';
```
+------+--------+---------+
| eid  | ename  | esalary |
+------+--------+---------+
|  105 | dom    |    6000 |
|  106 | domnic |    7000 |
+------+--------+---------+
2 rows in set (0.00 sec)
```

SAVE TRANSACTION (COMMIT):

mysql> COMMIT;
Query OK, 0 rows affected (0.00 sec)

mysql> update tbl_employee set esalary=0;
Query OK, 6 rows affected (0.00 sec)
Rows matched: 6 Changed: 6 Warnings: 0

mysql> select *from tbl_employee;
```
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |       0 |
|  102 | Aravind |       0 |
|  103 | NULL    |       0 |
|  104 | kumar   |       0 |
|  105 | dom     |       0 |
|  106 | domnic  |       0 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

CHECKING AUTOCOMMIT IS TRUE OR FALSE

```
mysql> select @@autocommit from dual;
+--------------+
| @@autocommit |
+--------------+
|            1 |
+--------------+
1 row in set (0.00 sec)
```

SET AUTOCOMMIT IS FALSE:

```
mysql> set autocommit=0;
Query OK, 0 rows affected (0.00 sec)

mysql> select @@autocommit from dual;
+--------------+
| @@autocommit |
+--------------+
|            0 |
+--------------+
1 row in set (0.00 sec)
```

UPDATE TABLE VALUE:

```
mysql> update tbl_employee set esalary=1000 where eid=101;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

FETCHING DATA:

```
mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    1000 |
|  102 | Aravind |       0 |
|  103 | NULL    |       0 |
|  104 | kumar   |       0 |
|  105 | dom     |       0 |
|  106 | domnic  |       0 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

ROLLBACK:

```
mysql> rollback;
Query OK, 0 rows affected (0.00 sec)
```

FETCHING DATA:

```
mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |       0 |
|  102 | Aravind |       0 |
|  103 | NULL    |       0 |
|  104 | kumar   |       0 |
|  105 | dom     |       0 |
|  106 | domnic  |       0 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

UPDATE TABLE VALUE:

```
mysql> update tbl_employee set esalary=2000;
Query OK, 6 rows affected (0.00 sec)
Rows matched: 6  Changed: 6  Warnings: 0

mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    2000 |
|  103 | NULL    |    2000 |
|  104 | kumar   |    2000 |
|  105 | dom     |    2000 |
|  106 | domnic  |    2000 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

SAVE (COMMIT):

```
mysql> commit;
Query OK, 0 rows affected (0.00 sec)
```

ROLLBACK:

```
mysql> rollback;
Query OK, 0 rows affected (0.00 sec)
mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    2000 |
|  103 | NULL    |    2000 |
|  104 | kumar   |    2000 |
|  105 | dom     |    2000 |
|  106 | domnic  |    2000 |
```

```
+------+---------+---------+
6 rows in set (0.00 sec)
```

UPDATE :

```
mysql> update tbl_employee set ename=null,esalary =0 where eid
in(101,103,106);
Query OK, 3 rows affected (0.00 sec)
Rows matched: 3  Changed: 3  Warnings: 0

mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | NULL    |       0 |
|  102 | Aravind |    2000 |
|  103 | NULL    |       0 |
|  104 | kumar   |    2000 |
|  105 | dom     |    2000 |
|  106 | NULL    |       0 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

DELETE:

```
mysql> DELETE FROM tbl_employee;
Query OK, 6 rows affected (0.00 sec)


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

ROLLBACK:

```
mysql> ROLLBACK;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select *from tbl_employee;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  102 | Aravind |    2000 |
|  103 | NULL    |    2000 |
|  104 | kumar   |    2000 |
|  105 | dom     |    2000 |
|  106 | domnic  |    2000 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

ORDER BY (DEFAULT ASCENDING)**:**

```
mysql> select *from tbl_employee order by ename;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  103 | NULL    |    2000 |
|  102 | Aravind |    2000 |
|  105 | dom     |    2000 |
|  106 | domnic  |    2000 |
|  104 | kumar   |    2000 |
|  101 | madhan  |    2000 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

ORDER BY (DESC FOR DESCENDING):

```
mysql> select *from tbl_employee order by ename desc;
+------+---------+---------+
| eid  | ename   | esalary |
+------+---------+---------+
|  101 | madhan  |    2000 |
|  104 | kumar   |    2000 |
|  106 | domnic  |    2000 |
|  105 | dom     |    2000 |
|  102 | Aravind |    2000 |
|  103 | NULL    |    2000 |
+------+---------+---------+
6 rows in set (0.00 sec)
```

Is null operator:

```
mysql> select * from tbl_employee where ename <=>null;
+------+-------+---------+
| eid  | ename | esalary |
+------+-------+---------+
|  103 | NULL  |    2000 |
+------+-------+---------+
1 row in set (0.00 sec)
```