MYSQL DDL, DML & TCL COMMANDS

DDL Commands:

- Create
- Alter
- Rename
- Drop
- Truncate

DML Commands:

- Insert
- Update
- Delete
- Select

TCL Commands:

- Commit
- Rollback

VIEW ALL DATABASES:

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 ename esalary	int varchar(20)	YES YES YES		NULL 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)
```

mysql> update tbl employee set ename='Aravind' where eid=102;

Rows matched: 1 Changed: 1 Warnings: 0

Rows matched: 1 Changed: 1 Warnings: 0

Query OK, 1 row affected (0.00 sec)

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;

+		+-		+	+	-
e	id		ename		esalary	
+		+-		+	+	-
	101		madha	an	2000	
	102		Aravind		3000	
	104		kumar		NULL	
	105		dom		6000	
	106		domni	.c	7000	
+		+-		+	+	-
5 r	ows	in	set	(0.0	0 sec)	

S TOWN III DOC (0:00 DOC)

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;

		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:

105 dom

106 | domnic |

+----+

```
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 |
```

2000

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;

	L	L — — — — — — _
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)
```