

```
mysql> use mydb;
```

```
Database changed
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_mydb |
+-----+
| tbl_1           |
| tbl_countries  |
| tbl_dup_countries |
| tbl_employee    |
| tbl_job_history |
| tbl_jobs        |
+-----+
6 rows in set (0.01 sec)
```

```
mysql> select * from tbl_employee;
```

```
+-----+-----+-----+
| eid  | ename  | esal |
+-----+-----+-----+
| 101  | Domnic | 2000 |
| 102  | Mahesh | 2000 |
| 103  | NULL   | 2000 |
| 102  | dev    | 2000 |
| 105  | Purush | 2000 |
| 125  | Shiva  | 2000 |
| 525  | Aravind | 2000 |
+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> select eid,ename from tbl_employee;
```

```
+-----+-----+
| eid  | ename  |
+-----+-----+
| 101  | Domnic |
| 102  | Mahesh |
| 103  | NULL   |
| 102  | dev    |
| 105  | Purush |
| 125  | Shiva  |
| 525  | Aravind |
+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> select eid as "Employee Id",ename "Employee Name" from
tbl_employee;
```

Employee Id	Employee Name
101	Domnic
102	Mahesh
103	NULL
102	dev
105	Purush
125	Shiva
525	Aravind

7 rows in set (0.00 sec)

```
mysql> select now();
```

now()
2023-10-03 09:54:09

1 row in set (0.00 sec)

```
mysql> alter table tbl_employee add edno int(3);
```

Query OK, 0 rows affected, 1 warning (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 1

```
mysql> select * from tbl_employee;
```

eid	ename	esal	edno
101	Domnic	2000	NULL
102	Mahesh	2000	NULL
103	NULL	2000	NULL
102	dev	2000	NULL
105	Purush	2000	NULL
125	Shiva	2000	NULL
525	Aravind	2000	NULL

7 rows in set (0.00 sec)

```
mysql> update tbl_employee set edno = 10 where eid in(101,102);
```

Query OK, 3 rows affected (0.00 sec)

Rows matched: 3 Changed: 3 Warnings: 0

```
mysql> update tbl_employee set edno = 20 where eid in(103,105);
```

```
Query OK, 2 rows affected (0.00 sec)
```

```
Rows matched: 2   Changed: 2   Warnings: 0
```

```
mysql> select * from tbl_employee;
```

```
+-----+-----+-----+-----+
| eid  | ename  | esal | edno |
+-----+-----+-----+-----+
| 101  | Domnic | 2000 | 10   |
| 102  | Mahesh | 2000 | 10   |
| 103  | NULL   | 2000 | 20   |
| 102  | dev    | 2000 | 10   |
| 105  | Purush | 2000 | 20   |
| 125  | Shiva  | 2000 | NULL |
| 525  | Aravind | 2000 | NULL |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> create table tbl_dept (dno int(3),dname varchar(20));
```

```
Query OK, 0 rows affected, 1 warning (0.02 sec)
```

```
mysql> insert into tbl_dept(10,'Ld'),(20,'Project');
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MySQL server version for the right
syntax to use near '10,'Ld'),(20,'Project')' at line 1
```

```
mysql> insert into tbl_dept(10,'Ld');
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MySQL server version for the right
syntax to use near '10,'Ld')' at line 1
```

```
mysql> insert into tbl_dept values (10,'Ld'),(20,'Project');
```

```
Query OK, 2 rows affected (0.00 sec)
```

```
Records: 2   Duplicates: 0   Warnings: 0
```

```
mysql> select * from tbl_dept;
```

```
+-----+-----+
| dno  | dname  |
+-----+-----+
| 10   | Ld     |
| 20   | Project |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select dno from tbl_dept where dname='LD';
```

```

+-----+
| dno   |
+-----+
|    10 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> select * from tbl_employee where edno=(select dno from tbl_dept
where dname='LD');

```

```

+-----+-----+-----+-----+
| eid   | ename   | esal   | edno   |
+-----+-----+-----+-----+
|  101  | Domnic  | 2000   |    10  |
|  102  | Mahesh  | 2000   |    10  |
|  102  | dev     | 2000   |    10  |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

```

mysql> select dname from tbl_dept where dno=(select edno from
tbl_employee where ename='mahesh');

```

```

+-----+
| dname |
+-----+
| Ld    |
+-----+
1 row in set (0.00 sec)

```

```

mysql> select dname from tbl_dept where dno = (select edno from
tbl_employee where ename is null );

```

```

+-----+
| dname |
+-----+
| Project |
+-----+
1 row in set (0.00 sec)

```

```

mysql> update tbl_employee set esal =esal + 200 where edno=(select dno
from tbl_dept where dname ="LD");

```

```

Query OK, 3 rows affected (0.00 sec)
Rows matched: 3  Changed: 3  Warnings: 0

```

```

mysql> select * from tbl_employee;

```

```

+-----+-----+-----+-----+

```

eid	ename	esal	edno
101	Domnic	2200	10
102	Mahesh	2200	10
103	NULL	2000	20
102	dev	2200	10
105	Purush	2000	20
125	Shiva	2000	NULL
525	Aravind	2000	NULL

7 rows in set (0.00 sec)

```
mysql> select dname from tbl_dept where dno in (select edno from
tbl_employee where eid in(101,103));
```

dname
Ld
Project

2 rows in set (0.00 sec)

```
mysql> select dname from tbl_dept where dno in (select edno from
tbl_employee where esal>2000);
```

dname
Ld

1 row in set (0.00 sec)

```
mysql> create table tbl_student (rno int(5) primary key,sname
varchar(20) not null,smarks int(3) check (smarks>0), smno int(10)
unique,sage int(3) default 15 );
Query OK, 0 rows affected, 4 warnings (0.04 sec)
```

```
mysql> insert into tbl_student (rno,sname,smarks,smno) values
(101,'Domnic',60,987654321);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from tbl_student;
```

rno	sname	smarks	smno	sage
101	Domnic	60	987654321	15

```
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> insert into tbl_student (rno,sname,smarks,smno) values
(101,'Dev',60,987654321);
```

```
ERROR 1062 (23000): Duplicate entry '101' for key
'tbl_student.PRIMARY'
```

```
mysql> insert into tbl_student (rno,sname,smarks,smno) values
(101,'Dev',60,98765430);
```

```
ERROR 1062 (23000): Duplicate entry '101' for key
'tbl_student.PRIMARY'
```

```
mysql> insert into tbl_student (rno,sname,smarks,smno) values
(102,'Dev',60,98765430);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into tbl_student (rno,sname,smarks,smno) values
(103,'Mahesh',50,987654301);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into tbl_student (rno,sname,smarks,smno) values
(104,'Purush',40,887654301);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from tbl_student;
```

```
+-----+-----+-----+-----+-----+
| rno | sname  | smarks | smno      | sage |
+-----+-----+-----+-----+-----+
| 101 | Dominic | 60     | 987654321 | 15   |
| 102 | Dev     | 60     | 98765430  | 15   |
| 103 | Mahesh  | 50     | 987654301 | 15   |
| 104 | Purush  | 40     | 887654301 | 15   |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> drop tbl_student;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MySQL server version for the right
syntax to use near 'tbl_student' at line 1
```

```
mysql> drop table tbl_student;
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table tbl_student(srno int(5) primary key
auto_increment,sname varchar(20),smarks int(3));
```

```
Query OK, 0 rows affected, 2 warnings (0.04 sec)
```

```
mysql> insert into tbl_student(sname,smarks) values("valan",30);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from tbl_student;
```

```
+-----+-----+-----+
| srno | sname | smarks |
+-----+-----+-----+
|    1 | valan |    30 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> insert into tbl_student(sname,smarks) values("Domnic",40);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from tbl_student;
```

```
+-----+-----+-----+
| srno | sname | smarks |
+-----+-----+-----+
|    1 | valan |    30 |
|    2 | Domnic |    40 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> desc tbl_student;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| srno  | int           | NO   | PRI | NULL    | auto_increment |
| sname | varchar(20)   | YES  |     | NULL    |                 |
| smarks | int           | YES  |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

```
mysql> drop table tbl_dept;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table tbl_dept(dno int primary key,dname varchar(20));
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> drop table tbl_employee;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table tbl_employee(id int primary key,name
varchar(20),salary int,dno int,foreign key (dno) references
tbl_dept(dno));
```

Query OK, 0 rows affected (0.04 sec)

mysql> desc tbl_dept;

Field	Type	Null	Key	Default	Extra
dno	int	NO	PRI	NULL	
dname	varchar(20)	YES		NULL	

2 rows in set (0.00 sec)

mysql> desc tbl_employee;

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
salary	int	YES		NULL	
dno	int	YES	MUL	NULL	

4 rows in set (0.00 sec)

mysql> insert into tbl_dept values(10,"LD");

Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_employee values(101,"valan",3000,10);

Query OK, 1 row affected (0.01 sec)