

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

Database
bank
colleg
hospital
information_schema
insurance
insurance_dhiksha
mysql
newdatabase
office
performance_schema
product
project1
project2
salesman_01
student
sys

16 rows in set (0.00 sec)

```
mysql> create database project5;
```

Query OK, 1 row affected (0.01 sec)

```
mysql> use project5;
```

Database changed

```
mysql> create table dept(deptno decimal primary key,
```

```
    -> dname varchar(20) default NULL,
```

```
    -> loc varchar(13) default NULL);
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> DESC DEPT;
```

Field	Type	Null	Key	Default	Extra
deptno	decimal(10,0)	NO	PRI	NULL	
dname	varchar(20)	YES		NULL	
loc	varchar(13)	YES		NULL	

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

```
mysql> create table emp(empno decimal(4,0) primary key,
```

```
    -> ename varchar(10) default NULL,
```

```
    -> mgr_no decimal(4,0) default NULL,
```

```
    -> hiredate date default NULL,
```

```
    -> sal decimal(7,2) default NULL,
```

```
    -> deptno decimal(2,0) references dept(deptno) ON DELETE CASCADE ON UPDATE CASCADE);
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> DESC EMP;
```

Field	Type	Null	Key	Default	Extra
empno	decimal(4,0)	NO	PRI	NULL	
ename	varchar(10)	YES		NULL	
mgr_no	decimal(4,0)	YES		NULL	
hiredate	date	YES		NULL	
sal	decimal(7,2)	YES		NULL	
deptno	decimal(2,0)	YES		NULL	

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

```
mysql> create table INCENTIVES( empno decimal(4,0) references empno(empno) ON DELETE CASCADE ON UPDATE CASCADE,
```

```
    -> incentive_date date,
```

```
    -> incentive_amount decimal(10,2),
```

```
    -> primary key (empno, incentive_date));
```

```
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 'UPDATECASCADE,
```

```
incentive_date date,
```

```
incentive_amount decimal(10,2),
```

```
primary key ' at line 1
```

```
mysql> create table INCENTIVES( empno decimal(4,0) references empno(empno) ON DELETE CASCADE ON UPDATE CASCADE,
```

```
    -> incentive_date date,
```

```
    -> incentive_amount decimal(10,2),
```

```
    -> primary key (empno, incentive_date));
```

Query OK, 0 rows affected (0.02 sec)

mysql> DESC INCENTIVES;

Field	Type	Null	Key	Default	Extra
empno	decimal(4,0)	NO	PRI	NULL	
incentive_date	date	NO	PRI	NULL	
incentive_amount	decimal(10,2)	YES		NULL	

3 rows in set (0.00 sec)

mysql> CREATE TABLE project(

 -> pno int primary key,
 -> pname varchar(30) NOT NULL,
 -> ploc varchar(30));

Query OK, 0 rows affected (0.02 sec)

mysql> desc projec;

ERROR 1146 (42S02): Table 'project5.projec' doesn't exist

mysql> desc project;

Field	Type	Null	Key	Default	Extra
pno	int	NO	PRI	NULL	
pname	varchar(30)	NO		NULL	
ploc	varchar(30)	YES		NULL	

3 rows in set (0.00 sec)

mysql> CREATE TABLE assigned_to(

 -> empno decimal(4,0) references emp(empno) ON DELETE CASCADE ON UPDATE CASCADE,
 -> pno int references project(pno) ON DELETE CASCADE ON UPDATE CASCADE,
 -> job_role varchar(30),
 -> primary key(empno, pno));

Query OK, 0 rows affected (0.02 sec)

mysql> DESC ASSIGNED_TO;

Field	Type	Null	Key	Default	Extra
empno	decimal(4,0)	NO	PRI	NULL	
pno	int	NO	PRI	NULL	
job_role	varchar(30)	YES		NULL	

3 rows in set (0.00 sec)

mysql> SHOW TABLES;

Tables_in_project5	
assigned_to	
dept	
emp	
incentives	
project	

5 rows in set (0.00 sec)

```
mysql> INSERT INTO dept VALUES(10,"ACCOUNTING",'MUMBAI');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO dept VALUES(20,"RESEARCH",'BENGALURU');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO dept VALUES(30,'SALES','DELHI');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO dept VALUES(40,'OPERATIONS','CHENNAI');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM dept;
```

deptno	dname	loc
10	ACCOUNTING	MUMBAI
20	RESEARCH	BENGALURU
30	SALES	DELHI
40	OPERATIONS	CHENNAI

4 rows in set (0.00 sec)

```
mysql> INSERT INTO emp VALUES(7369, 'Adarsh',7902,'2012-12-17','80000.00','20');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO emp VALUES(7499, 'Shruthi',7698,'2013-02-20','16000.00','30'),(7521,'Anvitha',7698,
'2015-02-22','12500.00','30'),(7566,'Tanvir',7839,'2008-04-02','29750.00','20');
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```

mysql> INSERT INTO emp VALUES('7900','JAMES',7698,'2017-12-03','9500.00','30'),('7902','FORD','7566','2010-12-03','30000.00','20');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM emp VALUES;
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 'VALUES' at line 1
mysql> SELECT * FROM emp;

```

empno	ename	mgr_no	hiredate	sal	deptno
7369	Adarsh	7902	2012-12-17	80000.00	20
7499	Shruthi	7698	2013-02-20	16000.00	30
7521	Anvitha	7698	2015-02-22	12500.00	30
7566	Tanvir	7839	2008-04-02	29750.00	20
7598	Kumar	7839	2015-05-01	28500.00	30
7654	Ramesh	7698	2014-09-28	12500.00	30
7782	CLARK	7839	2017-06-09	24500.00	10
7788	SCOTT	7566	2010-12-09	30000.00	20
7839	KING	NULL	2009-11-17	99999.99	10
7844	TURNER	7698	2010-09-08	15000.00	30
7876	ADAMS	7788	2013-01-12	11000.00	30
7900	JAMES	7698	2017-12-03	9500.00	30
7902	FORD	7566	2010-12-03	30000.00	20

```

13 rows in set (0.00 sec)

mysql> INSERT INTO incentives VALUES(7499,'2019-02-01',5000.00);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO incentives VALUES(7521,'2019-03-01',2500.00);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO incentives VALUES(7566,'2022-02-01',5070.00);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO incentives VALUES(7654,'2020-02-01',2000.00);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO incentives VALUES(7654,'2022-04-01',879.00);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO incentives VALUES(7521,'2019-02-01',8000.00);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO incentives VALUES(7698,'2019-03-01',500.00);
Query OK, 1 row affected (0.00 sec)

```

```
mysql> INSERT INTO incentives VALUES(7698,'2020-03-01',9000.00);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO incentives VALUES(7698,'2022-04-01',4500.00);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM incentive;
ERROR 1146 (42S02): Table 'project5.incentive' doesn't exist
mysql> SELECT * FROM incentives;
```

empno	incentive_date	incentive_amount
7499	2019-02-01	5000.00
7521	2019-02-01	8000.00
7521	2019-03-01	2500.00
7566	2022-02-01	5070.00
7654	2020-02-01	2000.00
7654	2022-04-01	879.00
7698	2019-03-01	500.00
7698	2020-03-01	9000.00
7698	2022-04-01	4500.00

```
9 rows in set (0.00 sec)
```

```
mysql> INSERT INTO project VALUES(101,'AI Project','BENGALURU');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO project VALUES(102,'IOT','HYDERABAD');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO project VALUES(103,'BLOCKCHAIN','BENGALURU');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO project VALUES(104,'DATA SCIENCE','MYSORE');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO project VALUES(105,'AUTONOMOUS SYSTEMS','PUNE');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM project;
```

pno	pname	ploc
101	AI Project	BENGALURU
102	IOT	HYDERABAD
103	BLOCKCHAIN	BENGALURU
104	DATA SCIENCE	MYSORE
105	AUTONOMOUS SYSTEMS	PUNE

```
5 rows in set (0.00 sec)
```

```

mysql> INSERT INTO assigned_to VALUES(7499,101,'Software Engineer');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO assigned_to VALUES(7521,101,'Software Architect');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7566,101,'Project Manager');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7564,102,'Sales');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7521,102,'Software Engineer');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7499,102,'Software Engineer');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7654,103,'Cyber Security');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7698,104,'Software Engineer');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7900,105,'Software Engineer');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO assigned_to VALUES(7654,103,'General Manager');
ERROR 1062 (23000): Duplicate entry '7654-103' for key 'assigned_to.PRIMARY'
mysql> INSERT INTO assigned_to VALUES(7839,104,'General Manager');
Query OK, 1 row affected (0.00 sec)

```

```
mysql> SELECT * FROM project;
```

pno	pname	ploc
101	AI Project	BENGALURU
102	IOT	HYDERABAD
103	BLOCKCHAIN	BENGALURU
104	DATA SCIENCE	MYSORE
105	AUTONOMOUS SYSTEMS	PUNE

```
5 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM assigned_to;
```

empno	pno	job_role
7499	101	Software Engineer
7499	102	Software Engineer
7521	101	Software Architect
7521	102	Software Engineer
7564	102	Sales
7566	101	Project Manager
7654	103	Cyber Security
7698	104	Software Engineer
7839	104	General Manager
7900	105	Software Engineer

```
10 rows in set (0.00 sec)
```

```
mysql> SELECT e.empno
```

```
-> FROM emp e, assigned_to a, project p
```

```
-> WHERE e.empno=a.empno AND a.pno= p.pno AND p.ploc IN ('BENGALURU','HYDERABAD','MYSURU');
```

empno
7499
7499
7521
7521
7566
7654

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



```
mysql> SELECT e.empno FROM emp e, incentives i
-> WHERE e.empno=i.empno AND e.empno NOT IN (SELECT empno FROM incentives);
Empty set (0.00 sec)
```

```
mysql> SELECT e.empno FROM emp e, incentives i
-> WHERE e.empno=i.empno AND e.empno NOT IN (SELECT empno FROM incentives);
Empty set (0.00 sec)
```

```
mysql> SELECT e.empno FROM emp e
-> WHERE e.empno NOT IN (SELECT empno FROM incentives);
```

empno
7369
7598
7782
7788
7839
7844
7876
7900
7902

9 rows in set (0.00 sec)

```
mysql> SELECT e.empno, e.name, d.dname, d.loc, a.job_role, p.ploc
-> FROM emp e, dept d, assigned_to a, project p
-> WHERE e.deptno=d.deptno AND e.empno=a.empno AND a.pno=p.pno AND d.loc = p.ploc;
ERROR 1054 (42S22): Unknown column 'e.name' in 'field list'
```

```
mysql> SELECT e.empno, e.ename, d.dname, d.loc, a.job_role, p.ploc
-> FROM emp e, dept d, assigned_to a, project p
-> WHERE e.deptno=d.deptno AND e.empno=a.empno AND a.pno=p.pno AND d.loc = p.ploc;
```

empno	ename	dname	loc	job_role	ploc
7566	Tanvir	RESEARCH	BENGALURU	Project Manager	BENGALURU

1 row in set (0.00 sec)

```
mysql> UPDATE emp SET sal=1.05*sal;
```

```
mysql> SELECT e.ename FROM emp e WHERE e.ename="A%";  
Empty set (0.00 sec)
```

```
mysql> SELECT e.ename FROM emp e WHERE e.ename LIKE "A%";
```

ename
Adarsh
Anvitha
ADAMS

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

```
mysql>
```