

Last login: Tue Mar 12 10:10:10 on ttys005  
macbook@Kshitijs-MacBook-Air ~ % mysql -u root  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 15  
Server version: 8.3.0 Homebrew

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

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| world |
+-----+
5 rows in set (0.02 sec)
```

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

```
mysql> show database;
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 'database' at line 1
mysql> show databases;;
```

```
+-----+
| Database |
+-----+
| impact |
| information_schema |
| mysql |
| performance_schema |
| sys |
| world |
+-----+
6 rows in set (0.01 sec)
```

ERROR:  
No query specified

```
mysql> use impact;
Database changed
mysql> select database();
+-----+
| database() |
+-----+
| impact |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select current_time;
+-----+
| current_time |
+-----+
| 10:12:32 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select current_date();
+-----+
| current_date() |
+-----+
| 2024-03-12 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> create table emp
-> (emp_no int,
-> emp_name varchar(20),
-> sal decimal(10,2),
-> hiredate date,
-> job varchar(10));
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> /
-> *
-> /*
/*> to clear screen use /*! clear
/*> */
-> ;
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 '/'
*
/*
to clear screen use /*! clear
*/' at line 1
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
emp_no	int	YES		NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
job	varchar(10)	YES		NULL	

5 rows in set (0.04 sec)

```
mysql> describe emp; #To show table structure
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| emp_no | int | YES | | NULL | |
| emp_name | varchar(20) | YES | | NULL | |
| sal | decimal(10,2) | YES | | NULL | |
| hiredate | date | YES | | NULL | |
| job | varchar(10) | YES | | NULL | |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> insert into emp values(1001,'martin',4000,'2021-03-12','hr'); #To insert into the table
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into emp values(1002,'smith',2000,'2022-05-20','operation');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp values(1003,'allen',3000,'1998-07-10','research');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into emp values(1004,'ford',4000,'1987-05-01','seniorDEV');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp values(1005,'king',5000,'1989-04-01','president');
Query OK, 1 row affected (0.00 sec)
```

mysql> select \* from emp;

emp_no	emp_name	sal	hiredate	job
1001	martin	4000.00	2021-03-12	hr
1002	smith	2000.00	2022-05-20	operation
1003	allen	3000.00	1998-07-10	research
1004	ford	4000.00	1987-05-01	seniorDEV
1005	king	5000.00	1989-04-01	president

5 rows in set (0.00 sec)

```
mysql> alter table emp add mobile_no int(10);      #using alter we are adding a new column
Query OK, 0 rows affected, 1 warning (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
mysql>
Display all 760 possibilities? (y or n)
mysql>
Display all 760 possibilities? (y or n)
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
emp_no	int	YES		NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
job	varchar(10)	YES		NULL	
mobile_no	int	YES		NULL	

6 rows in set (0.01 sec)

```
mysql> alter table emp add (address varchar(20),deptno int);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

mysql> select \* from emp;

emp_no	emp_name	sal	hiredate	job	mobile_no	address	deptno
1001	martin	4000.00	2021-03-12	hr	NULL	NULL	NULL
1002	smith	2000.00	2022-05-20	operation	NULL	NULL	NULL
1003	allen	3000.00	1998-07-10	research	NULL	NULL	NULL
1004	ford	4000.00	1987-05-01	seniorDEV	NULL	NULL	NULL
1005	king	5000.00	1989-04-01	president	NULL	NULL	NULL

5 rows in set (0.00 sec)

```
mysql> alter table emp modify job varchar(20);      #using alter we are modifying a column
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

mysql> desc emp;

Field	Type	Null	Key	Default	Extra
emp_no	int	YES		NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
job	varchar(20)	YES		NULL	
mobile_no	int	YES		NULL	
address	varchar(20)	YES		NULL	
deptno	int	YES		NULL	

8 rows in set (0.00 sec)

```
mysql> alter table emp modify address int;
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

mysql> desc emp;

Field	Type	Null	Key	Default	Extra
emp_no	int	YES		NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
job	varchar(20)	YES		NULL	
mobile_no	int	YES		NULL	
address	int	YES		NULL	
deptno	int	YES		NULL	

8 rows in set (0.00 sec)

```
mysql> alter table emp rename job to designation;      #using alter we are renaming a column
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 'to designation'
#using alter we are renaming a column'
```

```
mysql> alter table emp rename column job to designation;      #using alter we are renaming a column
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

mysql> desc emp;

Field	Type	Null	Key	Default	Extra
emp_no	int	YES		NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
designation	varchar(20)	YES		NULL	
mobile_no	int	YES		NULL	
address	int	YES		NULL	
deptno	int	YES		NULL	

8 rows in set (0.00 sec)

```
mysql> alter table emp drop column address;      #using alter we are dropping a column
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

mysql> desc emp;

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

Field	Type	Null	Key	Default	Extra
emp_no	int	YES		NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
designation	varchar(20)	YES		NULL	
mobile_no	int	YES		NULL	
deptno	int	YES		NULL	

7 rows in set (0.00 sec)

```
mysql> alter table emp add primary key(emp_no);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

#using alter add we can assign a column to be primary key

```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
emp_no	int	NO	PRI	NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
designation	varchar(20)	YES		NULL	
mobile_no	int	YES		NULL	
deptno	int	YES		NULL	

7 rows in set (0.00 sec)

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

#using rename we can change table name

```
mysql> show tables;
```

Tables_in_impact
employee

1 row in set (0.00 sec)

```
mysql> select * from employee;
```

emp_no	emp_name	sal	hiredate	designation	mobile_no	deptno
1001	martin	4000.00	2021-03-12	hr	NULL	NULL
1002	smith	2000.00	2022-05-20	operation	NULL	NULL
1003	allen	3000.00	1998-07-10	research	NULL	NULL
1004	ford	4000.00	1987-05-01	seniorDEV	NULL	NULL
1005	king	5000.00	1989-04-01	president	NULL	NULL

5 rows in set (0.00 sec)

```
mysql> truncate table employee;
Query OK, 0 rows affected (0.02 sec)
```

#using truncate we can remove all the data from the table

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

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
emp_no	int	NO	PRI	NULL	
emp_name	varchar(20)	YES		NULL	
sal	decimal(10,2)	YES		NULL	
hiredate	date	YES		NULL	
designation	varchar(20)	YES		NULL	
mobile_no	int	YES		NULL	
deptno	int	YES		NULL	

7 rows in set (0.01 sec)

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

#using drop we can drop the structure of the table...

```
mysql> desc employee;
ERROR 1146 (42S02): Table 'impact.employee' doesn't exist
mysql> create table emp (emp_no int, emp_name varchar(20), sal decimal(10,2), hiredate date, job varchar(10));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into emp(emp_no,emp_name,sal) values(1001,'smith',4000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp(emp_no,emp_name,sal) values(1002,'martin',5000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp(emp_no,emp_name,sal) values(1003,'allen',2000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp(emp_no,emp_name,sal) values(1004,'ford',2500);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp(emp_no,emp_name,sal) values(1004,'king',3000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from emp;
```

emp_no	emp_name	sal	hiredate	job
1001	smith	4000.00	NULL	NULL
1002	martin	5000.00	NULL	NULL
1003	allen	2000.00	NULL	NULL
1004	ford	2500.00	NULL	NULL
1004	king	3000.00	NULL	NULL

5 rows in set (0.00 sec)

```
mysql> truncate table emo;
ERROR 1146 (42S02): Table 'impact.emo' doesn't exist
mysql> truncate table emp;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into emp(emp_no,emp_name,sal) values(1001,'smith',4000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into emp
-> values(1002,'martin',4000,'2022-05-12','hr'),
-> ;
-> ;
-> ;
-> ;
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 'hr')
;
```

```

'' at line 2
mysql> insert into emp
-> values(1002,'martin',4000,'2022-05-12','hr'),
,3000,'1998-07-10','operation');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> /*
/*> Coping script to mysql shell
/*> */
->
-> ;
Query OK, 0 rows affected (0.00 sec)

mysql> DROP TABLE IF EXISTS emp;
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> CREATE TABLE emp (
-> empno decimal(4,0) NOT NULL,
-> ename varchar(10) default NULL,
-> job varchar(9) default NULL,
-> mgr decimal(4,0) default NULL,
-> hiredate date default NULL,
-> sal decimal(7,2) default NULL,
-> comm decimal(7,2) default NULL,
-> deptno decimal(2,0) default NULL
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> DROP TABLE IF EXISTS dept;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql>
mysql> CREATE TABLE dept (
-> deptno decimal(2,0) default NULL,
-> dname varchar(14) default NULL,
-> loc varchar(13) default NULL
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> INSERT INTO emp VALUES ('7369','SMITH','CLERK','7902','1980-12-17','800.00',NULL,'20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7499','ALLEN','SALESMAN','7698','1981-02-20','1600.00','300.00','30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7521','WARD','SALESMAN','7698','1981-02-22','1250.00','500.00','30');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO emp VALUES ('7566','JONES','MANAGER','7839','1981-04-02','2975.00',NULL,'20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7654','MARTIN','SALESMAN','7698','1981-09-28','1250.00','1400.00','30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7698','BLAKE','MANAGER','7839','1981-05-01','2850.00',NULL,'30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7782','CLARK','MANAGER','7839','1981-06-09','2450.00',NULL,'10');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7788','SCOTT','ANALYST','7566','1982-12-09','3000.00',NULL,'20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7839','KING','PRESIDENT',NULL,'1981-11-17','5000.00',NULL,'10');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7844','TURNER','SALESMAN','7698','1981-09-08','1500.00','0.00','30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7876','ADAMS','CLERK','7788','1983-01-12','1100.00',NULL,'20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7900','JAMES','CLERK','7698','1981-12-03','950.00',NULL,'30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7902','FORD','ANALYST','7566','1981-12-03','3000.00',NULL,'20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO emp VALUES ('7934','MILLER','CLERK','7782','1982-01-23','1300.00',NULL,'10');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO dept VALUES ('10','ACCOUNTING','NEW YORK');
Query OK, 1 row affected (0.00 sec)

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

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

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

mysql> select * from emp;
+-----+-----+-----+-----+-----+-----+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+-----+-----+-----+-----+-----+-----+
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250.00 | 500.00 | 30 |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250.00 | 1400.00 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850.00 | NULL | 30 |
| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450.00 | NULL | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000.00 | NULL | 20 |
| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL | 10 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500.00 | 0.00 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100.00 | NULL | 20 |
| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950.00 | NULL | 30 |
| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000.00 | NULL | 20 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300.00 | NULL | 10 |
+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.01 sec)

mysql> select * from dept;;
+-----+-----+-----+
| deptno | dname | loc |
+-----+-----+-----+

```

10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

4 rows in set (0.00 sec)

ERROR:  
No query specified

```
mysql> select empno,ename,sal from emp;
ERROR 1054 (42S22): Unknown column 'ename' in 'field list'
mysql> select empno,enamee,sal from emp;
ERROR 1054 (42S22): Unknown column 'enamee' in 'field list'
mysql> select empno,ename,sal from emp;
```

empno	ename	sal
7369	SMITH	800.00
7499	ALLEN	1600.00
7521	WARD	1250.00
7566	JONES	2975.00
7654	MARTIN	1250.00
7698	BLAKE	2850.00
7782	CLARK	2450.00
7788	SCOTT	3000.00
7839	KING	5000.00
7844	TURNER	1500.00
7876	ADAMS	1100.00
7900	JAMES	950.00
7902	FORD	3000.00
7934	MILLER	1300.00

14 rows in set (0.00 sec)

```
mysql> create table emp_select
-> (empno int,
-> ename varchar(20),
-> sal float);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into emp_select select empno,ename,sal from emp;          # inserting data from old table to new table
Query OK, 14 rows affected (0.01 sec)
Records: 14 Duplicates: 0 Warnings: 0
```

```
mysql> select * from emp_select;
```

empno	ename	sal
7369	SMITH	800
7499	ALLEN	1600
7521	WARD	1250
7566	JONES	2975
7654	MARTIN	1250
7698	BLAKE	2850
7782	CLARK	2450
7788	SCOTT	3000
7839	KING	5000
7844	TURNER	1500
7876	ADAMS	1100
7900	JAMES	950
7902	FORD	3000
7934	MILLER	1300

14 rows in set (0.00 sec)

```
mysql> alter table emp_select add column(job varchar(20), address varchar(20), mobileno int);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from emp_select;
```

empno	ename	sal	job	address	mobileno
7369	SMITH	800	NULL	NULL	NULL
7499	ALLEN	1600	NULL	NULL	NULL
7521	WARD	1250	NULL	NULL	NULL
7566	JONES	2975	NULL	NULL	NULL
7654	MARTIN	1250	NULL	NULL	NULL
7698	BLAKE	2850	NULL	NULL	NULL
7782	CLARK	2450	NULL	NULL	NULL
7788	SCOTT	3000	NULL	NULL	NULL
7839	KING	5000	NULL	NULL	NULL
7844	TURNER	1500	NULL	NULL	NULL
7876	ADAMS	1100	NULL	NULL	NULL
7900	JAMES	950	NULL	NULL	NULL
7902	FORD	3000	NULL	NULL	NULL
7934	MILLER	1300	NULL	NULL	NULL

14 rows in set (0.00 sec)

```
mysql> update emp_select set address='Mumbai' where empno=7379;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

```
mysql> select * from emp_select;
```

empno	ename	sal	job	address	mobileno
7369	SMITH	800	NULL	NULL	NULL
7499	ALLEN	1600	NULL	NULL	NULL
7521	WARD	1250	NULL	NULL	NULL
7566	JONES	2975	NULL	NULL	NULL
7654	MARTIN	1250	NULL	NULL	NULL
7698	BLAKE	2850	NULL	NULL	NULL
7782	CLARK	2450	NULL	NULL	NULL
7788	SCOTT	3000	NULL	NULL	NULL
7839	KING	5000	NULL	NULL	NULL
7844	TURNER	1500	NULL	NULL	NULL
7876	ADAMS	1100	NULL	NULL	NULL
7900	JAMES	950	NULL	NULL	NULL
7902	FORD	3000	NULL	NULL	NULL
7934	MILLER	1300	NULL	NULL	NULL

14 rows in set (0.00 sec)

```
mysql> update emp_select set address='Mumbai' where empno=7369;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from emp_select;
```

empno	ename	sal	job	address	mobileno
-------	-------	-----	-----	---------	----------

7369	SMITH	800	NULL	Mumbai	NULL
7499	ALLEN	1600	NULL	NULL	NULL
7521	WARD	1250	NULL	NULL	NULL
7566	JONES	2975	NULL	NULL	NULL
7654	MARTIN	1250	NULL	NULL	NULL
7698	BLAKE	2850	NULL	NULL	NULL
7782	CLARK	2450	NULL	NULL	NULL
7788	SCOTT	3000	NULL	NULL	NULL
7839	KING	5000	NULL	NULL	NULL
7844	TURNER	1500	NULL	NULL	NULL
7876	ADAMS	1100	NULL	NULL	NULL
7900	JAMES	950	NULL	NULL	NULL
7902	FORD	3000	NULL	NULL	NULL
7934	MILLER	1300	NULL	NULL	NULL

14 rows in set (0.00 sec)

```
mysql> update emp_select set address='Delhi', mobileno=9106714830 where empno=7499;
ERROR 1264 (22003): Out of range value for column 'mobileno' at row 2
mysql> update emp_select set address='Delhi', mobileno=1234567890 where empno=7499;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from emp_select;
```

empno	ename	sal	job	address	mobileno
7369	SMITH	800	NULL	Mumbai	NULL
7499	ALLEN	1600	NULL	Delhi	1234567890
7521	WARD	1250	NULL	NULL	NULL
7566	JONES	2975	NULL	NULL	NULL
7654	MARTIN	1250	NULL	NULL	NULL
7698	BLAKE	2850	NULL	NULL	NULL
7782	CLARK	2450	NULL	NULL	NULL
7788	SCOTT	3000	NULL	NULL	NULL
7839	KING	5000	NULL	NULL	NULL
7844	TURNER	1500	NULL	NULL	NULL
7876	ADAMS	1100	NULL	NULL	NULL
7900	JAMES	950	NULL	NULL	NULL
7902	FORD	3000	NULL	NULL	NULL
7934	MILLER	1300	NULL	NULL	NULL

14 rows in set (0.00 sec)

```
mysql> select sal from emp where empno=7566;
```

sal
2975.00

1 row in set (0.00 sec)

```
mysql> update emp_select set sal=(select sal from emp where empno=7521) where empno=7369;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from emp_select;
```

empno	ename	sal	job	address	mobileno
7369	SMITH	1250	NULL	Mumbai	NULL
7499	ALLEN	1600	NULL	Delhi	1234567890
7521	WARD	1250	NULL	NULL	NULL
7566	JONES	2975	NULL	NULL	NULL
7654	MARTIN	1250	NULL	NULL	NULL
7698	BLAKE	2850	NULL	NULL	NULL
7782	CLARK	2450	NULL	NULL	NULL
7788	SCOTT	3000	NULL	NULL	NULL
7839	KING	5000	NULL	NULL	NULL
7844	TURNER	1500	NULL	NULL	NULL
7876	ADAMS	1100	NULL	NULL	NULL
7900	JAMES	950	NULL	NULL	NULL
7902	FORD	3000	NULL	NULL	NULL
7934	MILLER	1300	NULL	NULL	NULL

14 rows in set (0.00 sec)

```
mysql> /*
  > sub qurey
  > */;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> delete from emp_select where empno=7698;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from emp_select;
```

empno	ename	sal	job	address	mobileno
7369	SMITH	1250	NULL	Mumbai	NULL
7499	ALLEN	1600	NULL	Delhi	1234567890
7521	WARD	1250	NULL	NULL	NULL
7566	JONES	2975	NULL	NULL	NULL
7654	MARTIN	1250	NULL	NULL	NULL
7782	CLARK	2450	NULL	NULL	NULL
7788	SCOTT	3000	NULL	NULL	NULL
7839	KING	5000	NULL	NULL	NULL
7844	TURNER	1500	NULL	NULL	NULL
7876	ADAMS	1100	NULL	NULL	NULL
7900	JAMES	950	NULL	NULL	NULL
7902	FORD	3000	NULL	NULL	NULL
7934	MILLER	1300	NULL	NULL	NULL

13 rows in set (0.00 sec)

```
mysql> create table users(id int,email varchar(30));
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into users
  > values(10,'lucky733@gmail.com'),
  > (20,'training123@gamil.com'),
  > (30,'lucky733@gmail.com');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from users1
```

```

  > ;
ERROR 1146 (42S02): Table 'impact.users1' doesn't exist
mysql> select * from users;
```

id	email
10	lucky733@gmail.com
20	training123@gamil.com
30	lucky733@gmail.com

```

| 10 | lucky733@gmail.com |
| 20 | training123@gamil.com |
| 30 | lucky733@gmail.com |
+-----+
3 rows in set (0.00 sec)

mysql> select distinct(email) from users;
+-----+
| email |
+-----+
| lucky733@gmail.com |
| training123@gamil.com |
+-----+
2 rows in set (0.00 sec)

mysql> select id,distinct(email) from users;
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 'distinct(email) from user
s' at line 1
mysql> create table emp14
-> (empno int not null,
-> ename varchar(10),
-> sal decimal(10,2));
Query OK, 0 rows affected (0.02 sec)

mysql> insert into emp14 values(101,'smith',4000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into emp14 values(null,'smith',4000);
ERROR 1048 (23000): Column 'empno' cannot be null
mysql> insert into emp14(ename,sal) values('smith',4000);
ERROR 1364 (HY000): Field 'empno' doesn't have a default value
mysql> alter table emp14 column empno int inc;
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 'column empno int inc' at
line 1
mysql> desc emp14;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| empno | int | NO | | NULL | |
| ename | varchar(10) | YES | | NULL | |
| sal | decimal(10,2) | YES | | NULL | |
+-----+
3 rows in set (0.02 sec)

mysql> create table emp15
-> (empno int not null,
-> ename varchar(10),
-> sal decimal(10,2),
-> gender varchar(1) check(gender='M' or gender='F'), # boolean type takes only two arguments
-> job varchar(10));
Query OK, 0 rows affected (0.01 sec)

mysql> insert into emp15
-> values(1,'raju',3000,'M','hr');
Query OK, 1 row affected (0.00 sec)

mysql> insert into emp15 values(2,'Ganesh',5000,'S','Operation');
ERROR 3819 (HY000): Check constraint 'emp15_chk_1' is violated.
mysql> drop table emp15;
Query OK, 0 rows affected (0.01 sec)

mysql> create table emp15
-> (empno int not null,
-> ename varchar(10),
-> gender varchar(1),
-> job varchar(10),
-> check(gender='M' or gender='F'));
Query OK, 0 rows affected (0.01 sec)

mysql> insert into emp15 values(2,'Ganesh',5000,'S','Operation');
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> insert into emp15 values(2,'Ganesh','S','Operation');
ERROR 3819 (HY000): Check constraint 'emp15_chk_1' is violated.
mysql> drop table emp15;
Query OK, 0 rows affected (0.01 sec)

mysql> create table emp15 (empno int not null, ename varchar(10), gender varchar(1), job varchar(10));
Query OK, 0 rows affected (0.01 sec)

mysql> alter table emp15 add constraint GAY h kya check(gender='M' or gender='F');
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 'h kya check(gender='M' or
gender='F')' at line 1
mysql> alter table emp15 add constraint GAY_h_kya check(gender='M' or gender='F');
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> insert into emp15 values(2,'Ganesh','M','Operation');
Query OK, 1 row affected (0.00 sec)

mysql> insert into emp15 values(3,'Archit','K','Operation');
ERROR 3819 (HY000): Check constraint 'GAY_h_kya' is violated.
mysql> show create table emp15; # display the constraint
+-----+
| Table | Create Table |
+-----+
| emp15 | CREATE TABLE `emp15` (
  `empno` int NOT NULL,
  `ename` varchar(10) DEFAULT NULL,
  `gender` varchar(1) DEFAULT NULL,
  `job` varchar(10) DEFAULT NULL,
  CONSTRAINT `GAY_h_kya` CHECK (((`gender` = _utf8mb4'M') or (`gender` = _utf8mb4'F')))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.01 sec)

mysql> alter table emp15 drop constraint GAY_h_kya; # drop the constraint
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> drop table emp15;
Query OK, 0 rows affected (0.00 sec)

mysql> create table emp15
-> (empno int unique,
-> ename varchar(10),
-> sal decimal(10,2));
Query OK, 0 rows affected (0.02 sec)

mysql> insert into emp15 values(1,'smith',3000);

```

```

Query OK, 1 row affected (0.01 sec)

mysql> insert into emp15 values(1,'smith',3000);
ERROR 1062 (23000): Duplicate entry '1' for key 'emp15.empno'
mysql> insert into emp15 values(null,'smith',3000);          # can't be null because its unique
Query OK, 1 row affected (0.01 sec)

mysql> /* unique can be null but no duplicat */;
Query OK, 0 rows affected (0.00 sec)

mysql> drop table ;emp15
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 '' at line 1
-> drop table emp15;
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 'emp15
drop table emp15' at line 1
mysql> drop table emp15;
Query OK, 0 rows affected (0.00 sec)

mysql> create table emp15
-> (empno int primary key,
->  ename varchar(10),
->  sal decimal(10,2));
Query OK, 0 rows affected (0.02 sec)

mysql> insert into emp15 values(1,'smith',3000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into emp15 values(1,'smith',3000);
ERROR 1062 (23000): Duplicate entry '1' for key 'emp15.PRIMARY'
mysql> insert into emp15 values(null,'smith',3000);
ERROR 1048 (23000): Column 'empno' cannot be null
mysql> /* Primary key can't be null and don't contain duplicates */;
Query OK, 0 rows affected (0.00 sec)

mysql> drop table emp15;
Query OK, 0 rows affected (0.01 sec)

mysql> create table emp15 (empno int, ename varchar(10), sal decimal(10,2), primary key(empno));
Query OK, 0 rows affected (0.01 sec)

mysql> insert into emp15 values(1,'smith',3000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into emp15 values(1,'smith',3000);
ERROR 1062 (23000): Duplicate entry '1' for key 'emp15.PRIMARY'
mysql> insert into emp15 values(null,'smith',3000);
ERROR 1048 (23000): Column 'empno' cannot be null
mysql> /*
/*> FOREIGN KEY
/*> */;
Query OK, 0 rows affected (0.00 sec)

mysql> create table coursre
-> (cid int,
->  cname varchar(10),
->  fee int,
->  primary key(cid));
Query OK, 0 rows affected (0.02 sec)

mysql> create table student
-> (sid int,
->  sname varchar(10),
->  addr varchar(10),
->  cid int,
->  primary key(sid),
->  foreign key(cid) REFERENCES course(cid));          # foreign key added
ERROR 1824 (HY000): Failed to open the referenced table 'course'
mysql> rename table coursre to course;
Query OK, 0 rows affected (0.01 sec)

mysql> create table student (sid int, sname varchar(10), addr varchar(10), cid int, primary key(sid), foreign key(cid) REFERENCES course(cid))          # foreign key
added;
-> ;
Query OK, 0 rows affected (0.01 sec)

mysql> show ccreate table 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 'ctreate table student' at
line 1
mysql> show create table student;
+-----+-----+
| Table | Create Table |
+-----+-----+
| student | CREATE TABLE `student` (
  `sid` int NOT NULL,
  `sname` varchar(10) DEFAULT NULL,
  `addr` varchar(10) DEFAULT NULL,
  `cid` int DEFAULT NULL,
  PRIMARY KEY (`sid`),
  KEY `cid` (`cid`),
  CONSTRAINT `student_ibfk_1` FOREIGN KEY (`cid`) REFERENCES `course` (`cid`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+

1 row in set (0.00 sec)

mysql> insert into course
-> values(1,'C++',5000),
-> (2,'WEB',5000),
-> (3,'PYTHON',3000),
-> (4,'JAVA',4000);
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from course;
+-----+-----+
| cid | cname | fee |
+-----+-----+
| 1 | C++ | 5000 |
| 2 | WEB | 5000 |
| 3 | PYTHON | 3000 |
| 4 | JAVA | 4000 |
+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into student values(101,'ganesh','mumbai',1);
Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(102,'mahesh','guj',3);
Query OK, 1 row affected (0.01 sec)

```



```

mysql> insert into student values(103,'raju','delhi',4);
Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(103,'raju','delhi',5);
ERROR 1062 (23000): Duplicate entry '103' for key 'student.PRIMARY'
mysql> insert into student values(104,'raju','delhi',5);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`impact`.`student`, CONSTRAINT `student_ibfk_1` FOREIGN KEY (`cid`) REFERENCES `course` (`cid`))
mysql> select * from course;
+----+-----+-----+
| cid | cname | fee |
+----+-----+-----+
| 1   | C++   | 5000 |
| 2   | WEB   | 5000 |
| 3   | PYTHON | 3000 |
| 4   | JAVA  | 4000 |
+----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from student;
+----+-----+-----+-----+
| sid | sname | addr | cid |
+----+-----+-----+-----+
| 101 | ganesh | mumbai | 1 |
| 102 | mahesh | guj | 3 |
| 103 | raju | delhi | 4 |
+----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> delete from course where cid=1;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`impact`.`student`, CONSTRAINT `student_ibfk_1` FOREIGN KEY (`cid`) REFERENCES `course` (`cid`))
mysql> delete from course where cid=1;
# Can't delete because is reference for another table
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`impact`.`student`, CONSTRAINT `student_ibfk_1` FOREIGN KEY (`cid`) REFERENCES `course` (`cid`))
mysql> create table product_1
-> (pid int(4) primary key,
-> pname varchar(10),
-> price decimal(10,2));
Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> create table customer_1
-> (cid int(4) primary key,
-> cname varchar(10),
-> caddress varchar(10),
-> pid int(4),
-> foreign key(pid) REFERENCES product_1(pid) on delete cascade);
Query OK, 0 rows affected, 2 warnings (0.01 sec)

mysql> show create table customer_1;
ERROR 1146 (42S02): Table 'impact.customer_1' doesn't exist
mysql> show create table customer_1;
+-----+
| Table | Create Table
+-----+
|
+-----+
| customer_1 | CREATE TABLE `customer_1` (
  `cid` int NOT NULL,
  `cname` varchar(10) DEFAULT NULL,
  `caddress` varchar(10) DEFAULT NULL,
  `pid` int DEFAULT NULL,
  PRIMARY KEY (`cid`),
  KEY `pid` (`pid`),
  CONSTRAINT `customer_1_ibfk_1` FOREIGN KEY (`pid`) REFERENCES `product_1` (`pid`) ON DELETE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.00 sec)

mysql> insert into product_1
-> values(1,'mouse',300),
-> (2,'ram',5000),
-> (3,'moniter',10000);
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> insert into customer_1 values(1001,'gopal','mumb',3);
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer_1 values(1002,'laxmi','guj',1);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer_1 values(1003,'niley','vad',2);
Query OK, 1 row affected (0.00 sec)

mysql> select * from product_1;
+----+-----+-----+
| pid | pname | price |
+----+-----+-----+
| 1   | mouse | 300.00 |
| 2   | ram   | 5000.00 |
| 3   | moniter | 10000.00 |
+----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from customer_1;
+----+-----+-----+-----+
| cid | cname | caddress | pid |
+----+-----+-----+-----+
| 1001 | gopal | mumb | 3 |
| 1002 | laxmi | guj | 1 |
| 1003 | niley | vad | 2 |
+----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> delete from product_1 where pid=1;
Query OK, 1 row affected (0.01 sec)

mysql> select * from product_1;
+----+-----+-----+
| pid | pname | price |
+----+-----+-----+
| 2   | ram   | 5000.00 |
| 3   | moniter | 10000.00 |
+----+-----+-----+
2 rows in set (0.00 sec)

```

```
mysql> select * from customer_1;
```

cid	cname	caddress	pid
1001	gopal	mumb	3
1003	niley	vad	2

2 rows in set (0.00 sec)

```
mysql> select * from emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

14 rows in set (0.04 sec)

```
mysql> select * from dept;
```

deptno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

4 rows in set (0.00 sec)

```
mysql> insert into emp(empno,ename,sal) values(1001,'gopal',4000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into dept values(50,'testing','SA');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select*from emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
1001	gopal	NULL	NULL	NULL	4000.00	NULL	NULL

15 rows in set (0.00 sec)

```
mysql> select*from dept;
```

deptno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	testing	SA

5 rows in set (0.00 sec)

```
mysql> select ename as employeeename from emp
-> ;
```

employeeename
SMITH
ALLEN
WARD
JONES
MARTIN
BLAKE
CLARK
SCOTT
KING
TURNER
ADAMS
JAMES
FORD
MILLER
gopal

15 rows in set (0.00 sec)

```
mysql> select ename 'employeeename' from emp;
```

employeeename
SMITH
ALLEN
WARD
JONES
MARTIN
BLAKE
CLARK
SCOTT
KING
TURNER
ADAMS
JAMES
FORD
MILLER
gopal

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

```
mysql> select e.empno,e.ename from emp e;
```

empno	ename
7369	SMITH
7499	ALLEN
7521	WARD
7566	JONES
7654	MARTIN
7698	BLAKE
7782	CLARK
7788	SCOTT
7839	KING
7844	TURNER
7876	ADAMS
7900	JAMES
7902	FORD
7934	MILLER
1001	gopal

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

```
mysql> select e.empno,e.ename,e.sal,d.dname from emp e join dept d      #INNER JOIN
-> on (d.deptno=e.deptno
-> );
```

empno	ename	sal	dname
7369	SMITH	800.00	RESEARCH
7499	ALLEN	1600.00	SALES
7521	WARD	1250.00	SALES
7566	JONES	2975.00	RESEARCH
7654	MARTIN	1250.00	SALES
7698	BLAKE	2850.00	SALES
7782	CLARK	2450.00	ACCOUNTING
7788	SCOTT	3000.00	RESEARCH
7839	KING	5000.00	ACCOUNTING
7844	TURNER	1500.00	SALES
7876	ADAMS	1100.00	RESEARCH
7900	JAMES	950.00	SALES
7902	FORD	3000.00	RESEARCH
7934	MILLER	1300.00	ACCOUNTING

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

```
mysql> select e.empno,e.ename,e.sal,d.deptno,d.dname from emp e,dept d where d.deptno=e.deptno;
```

empno	ename	sal	deptno	dname
7369	SMITH	800.00	20	RESEARCH
7499	ALLEN	1600.00	30	SALES
7521	WARD	1250.00	30	SALES
7566	JONES	2975.00	20	RESEARCH
7654	MARTIN	1250.00	30	SALES
7698	BLAKE	2850.00	30	SALES
7782	CLARK	2450.00	10	ACCOUNTING
7788	SCOTT	3000.00	20	RESEARCH
7839	KING	5000.00	10	ACCOUNTING
7844	TURNER	1500.00	30	SALES
7876	ADAMS	1100.00	20	RESEARCH
7900	JAMES	950.00	30	SALES
7902	FORD	3000.00	20	RESEARCH
7934	MILLER	1300.00	10	ACCOUNTING

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

```
mysql> select * from users;
```

id	email
10	lucky733@gmail.com
20	training123@gamil.com
30	lucky733@gmail.com

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

```
mysql> select * from users join users;
ERROR 1066 (42000): Not unique table/alias: 'users'
mysql> select * from users u1 join users u2;
```

id	email	id	email
30	lucky733@gmail.com	10	lucky733@gmail.com
20	training123@gamil.com	10	lucky733@gmail.com
10	lucky733@gmail.com	10	lucky733@gmail.com
30	lucky733@gmail.com	20	training123@gamil.com
20	training123@gamil.com	20	training123@gamil.com
10	lucky733@gmail.com	20	training123@gamil.com
30	lucky733@gmail.com	30	lucky733@gmail.com
20	training123@gamil.com	30	lucky733@gmail.com
10	lucky733@gmail.com	30	lucky733@gmail.com

```
+-----+
9 rows in set (0.01 sec)
```

```
mysql> delete u1 from users u1 join users u2      # Delete Duplicate
-> where u1.id>u2.id and u1.email=u2.email;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from users;
```

id	email
10	lucky733@gmail.com
20	training123@gamil.com

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

```
mysql> show tables;
```

Tables_in_impact
course
customer_1
dept
emp
emp14
emp15
emp_select
product_1
student

```

| users |
+-----+
10 rows in set (0.09 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| impact   |
| information_schema |
| mysql     |
| performance_schema |
| sys       |
| world     |
+-----+
6 rows in set (0.00 sec)

mysql> create database assignments;
Query OK, 1 row affected (0.02 sec)

mysql> use assignments;
Database changed
mysql> create table customer
  -> (custid int,
  -> name varchar(20),
  -> primary key(custid));
Query OK, 0 rows affected (0.03 sec)

mysql> create table product
  -> productid int,
  -> name varchar(20),
  -> price int,
  -> quantity int,
  -> primary key(productid));
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 'productid int,
name varchar(20),
price int,
quantity int,
primary key(productid)' at line 2
mysql> create table product (productid int, name varchar(20), price int, quantity int, primary key(productid));
Query OK, 0 rows affected (0.01 sec)

mysql> create table order
  -> (orderid int,
  -> productid int,
  -> quantity int,
  -> custid int,
  -> foreign key(productid) REFERENCES product(productid));
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 'order
(orderid int,
productid int,
quantity int,
custid int,
foreign key(product' at line 1
mysql> create table orders
  -> (orderid int primary key,
  -> productid int,
  -> quantity int,
  -> custid int,
  -> foreign key(productid) REFERENCES product(productid),
  -> foreign key(custid) REFERENCES customer(custid));
Query OK, 0 rows affected (0.03 sec)

mysql> create table orderstatus
  -> (orderid int primary key,
  ->      -> productid int,
  -> 1
  -> ;
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 '-> productid int,
1' at line 3
mysql> create table orderstatus
  -> (orderid int primary key,
  -> status varchar(20),
  -> delivereddate date);
Query OK, 0 rows affected (0.01 sec)

mysql> insert into customer
  -> values(1,'john'),
  -> (2,'james');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into product
  -> values(101,'X',10,10),
  -> (102,'Y',6,6);
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into orders
  -> values(1001,101,5,1),
  -> (1002,101,3,1),
  -> (1003,102,2,2);
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> insert into orderstatus
  -> values(1001,'Delivered','2020-08-14'),
  -> (1002,'Not Delivered',NULL),
  -> (1003,'Not Delivered',NULL);
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql>

```