```
create table student(stuid int,stuname varchar(20),dept varchar(20));
mysql> create table stu(stuid int,stuname varchar(20),dept varchar(20));
Query OK, 0 rows affected (0.38 sec)
mysql> insert into student values(5,'sara','cse');
Query OK, 1 row affected (0.17 sec)
mysql> insert into student values(6,'dharsh','cse');
Query OK, 1 row affected (0.16 sec)
mysql> insert into student values(1, 'dharsh', 'cse');
Query OK, 1 row affected (0.25 sec)
mysql> insert into student values(7, 'nandh', 'cse');
Query OK, 1 row affected (0.08 sec)
mysql> select*from student;
+----+
| stuid | stuname | dept |
+----+
    5 | sara | cse
    6 | dharsh | cse
    1 | dharsh | cse |
    7 | nandh | cse |
+----+
4 rows in set (0.01 sec)
mysql> insert into stu values(1, 'dhar', 'cse');
Query OK, 1 row affected (0.15 sec)
mysql> insert into stu values(2,'vishl','cse');
Query OK, 1 row affected (0.07 sec)
mysql> insert into stu values(3,'nivi','cse');
Query OK, 1 row affected (0.04 sec)
mysql> insert into stu values(8,'xyz',null);
Query OK, 1 row affected (0.10 sec)
mysql> select*from stu;
+----+
| stuid | stuname | dept |
+-----+
     1 | dhar | cse |
     2 | vishl | cse
    3 | nivi | cse
    8 | xyz | NULL |
+----+
4 rows in set (0.00 sec)
```

```
mysql> INSERT INTO stu (stuid, stuname, dept)
   -> SELECT stuid, stuname, dept
   -> FROM student
   -> WHERE dept = 'cse';
Query OK, 4 rows affected (0.14 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> select*from stu;
+----+
| stuid | stuname | dept |
+----+
     1 | dhar | cse
     2 | vishl | cse
     3 | nivi
                cse
     8 xyz
                NULL
     5 | sara
               cse
     6 | dharsh | cse
     1 | dharsh | cse
     7 nandh
              cse
+----+
8 rows in set (0.00 sec)
mysql> UPDATE stu
   -> SET dept = 'ece'
   -> WHERE stuname IN (SELECT stuname FROM student WHERE stuid = 7);
Query OK, 1 row affected (0.12 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select*from stu;
+----+
| stuid | stuname | dept |
+----+
     1 | dhar
               cse
     2 | vishl
               cse
     3 | nivi
                cse
     8 xyz
                I NULL I
     5 | sara
               cse
     6 | dharsh | cse
     1 | dharsh | cse
     7 | nandh
              | ece
8 rows in set (0.00 sec)
mysql> create table book(isbn int,title varchar(20),pubyear int(10),unitprice
int(10), authorname varchar(20), publisher varchar(20));
Query OK, 0 rows affected, 2 warnings (0.29 sec)
mysql> insert into book values(1001, 'cn', 1997, 450, 'vishal', 'dharsh');
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into book values(1002, 'os', 1928, 750, 'nivi', 'var');
Query OK, 1 row affected (0.13 sec)
mysql> insert into book values(1003, 'dp',1990,500, 'nand', 'lak');
Query OK, 1 row affected (0.38 sec)
mysql> insert into book values(1004, 'es', 1978, 400, 'saran', 'sudha');
Query OK, 1 row affected (0.15 sec)
mysql> select *from book;
+----+
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
6 rows in set (0.00 sec)
suppose enter null value delete?
DELETE FROM book WHERE isbn IS NULL;
mysql> select*from book;
| isbn | title | pubyear | unitprice | authorname | publisher |
4 rows in set (0.00 sec)
mysql> UPDATE book
  -> SET unitprice = 500
  -> WHERE unitprice = (SELECT MAX(unitprice) FROM (SELECT unitprice FROM book) AS
temp);
Query OK, 1 row affected (0.35 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select*from book;
+----+
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
| 1001 | cn | 1997 | 450 | vishal | dharsh
```

```
+----+
4 rows in set (0.00 sec)
mysql> insert into book values(1005, 'daa', 1990, 700, 'san', 'roja');
Query OK, 1 row affected (0.18 sec)
mysql> select*from book;
+----+
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
| 1005 | daa | 1990 | 700 | san | roja
+----+
5 rows in set (0.00 sec)
mysql> UPDATE book
  -> SET unitprice = 500
  -> WHERE unitprice > (SELECT AVG_price FROM (SELECT AVG(unitprice) AS AVG_price
FROM book) AS temp);
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select*from book;
+----+
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
5 rows in set (0.00 sec)
mysql> create table author(authorname varchar(15),country varchar(20));
Query OK, 0 rows affected (2.63 sec)
mysql> insert into author values('nivi', 'india');
Query OK, 1 row affected (0.20 sec)
mysql> insert into author values('nandh', 'us');
Query OK, 1 row affected (0.12 sec)
mysql> insert into author values('saran','canada');
```

```
mysql> select*from author;
+----+
| authorname | country |
+----+
+----+
4 rows in set (0.00 sec)
mysql> DELETE FROM book
  -> WHERE authorname IN (SELECT authorname FROM author WHERE country = 'canada');
Query OK, 1 row affected (0.20 sec)
mysql> select*from book;
+----+
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
| roja
+----+
4 rows in set (0.00 sec)
mysql> DELETE FROM book
  -> WHERE unitprice = (SELECT MIN(unitprice) FROM (SELECT unitprice FROM book) AS
Query OK, 1 row affected (0.20 sec)
mysql> select *from book;
+----+
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
+----+
3 rows in set (0.00 sec)
mysql> DELETE FROM book
  -> WHERE title IN (SELECT title FROM (SELECT title FROM book WHERE title='os')
AS temp):
Query OK, 1 row affected (0.12 sec)
mysql> select*from book;
+----+
```

Query OK, 1 row affected (0.13 sec)

```
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
| lak
+----+
2 rows in set (0.00 sec)
mysql> SELECT title, authorname, publisher
  -> FROM book
  -> WHERE pubyear = 1990;
+----+
| title | authorname | publisher |
+----+
+----+
2 rows in set (0.00 sec)
mysql> select*from book where authorname IN(select authorname from book where
pubyear=1990);
+----+
| isbn | title | pubyear | unitprice | authorname | publisher |
+----+
+----+
2 rows in set (0.00 sec)
mysql> SELECT title
  -> FROM book
  -> WHERE authorname NOT IN (SELECT authorname FROM author WHERE country =
'india');
+----+
| title |
| dp
l daa |
+----+
2 rows in set (0.00 sec)
mysql> create table book1(isbn int,title varchar(20),pubyear int,unitprice
int,authornamr varchar(20),pblisher varchar(20));
Query OK, 0 rows affected (1.49 sec)
mysql> insert into book1 values(1001, 'cn', 1997, 450, 'vishal', 'dharsh');
Query OK, 1 row affected (0.35 sec)
mysql> insert into book1 values(1002,'os',1989,500,'nivi','varsh');
Query OK, 1 row affected (0.12 sec)
```

```
mysql> insert into book1 values(1003,'dp',1990,500,'nand','laksh');
Query OK, 1 row affected (0.11 sec)
mysql> insert into book1 values(1004, 'es', 1978, 400, 'saran', 'sudha');
Query OK, 1 row affected (0.13 sec)
mysql> select*from book1;
+----+
| isbn | title | pubyear | unitprice | authornamr | pblisher |
+----+
           | 1997 | 450 | vishal
| 1001 | cn
                                       dharsh
           1989
                        500 | nivi
| 1002 | os
                                       varsh
              1990 |
                        500 | nand
                                       laksh
| 1003 | dp
sudha
+----+
4 rows in set (0.00 sec)
mysql> SELECT DISTINCT title
   -> FROM book1
   -> WHERE unitprice > SOME (SELECT unitprice FROM book1 WHERE pubyear = 1978);
+----+
| title |
+----+
cn
los
| dp
+----+
3 rows in set (0.10 sec)
mysql> select distinct title from book1 where unitprice>all(select unitprice from
book1 where pubyear=1978);
+----+
| title |
+----+
l cn
los
l dp
+----+
3 rows in set (0.00 sec)
mysql> SELECT authornamr
   -> FROM book1
   -> GROUP BY authornamr
   -> HAVING (SUM(unitprice) * 0.15) >= ALL (SELECT SUM(unitprice * 0.15) FROM book
GROUP BY authorname);
+----+
| authornamr |
+----+
l nivi
nand
```

```
+----+
2 rows in set (0.06 sec)
mysql> create table student1(stuid int,stuname varchar(20),dept varchar(20),age
int,total int);
Query OK, 0 rows affected (1.94 sec)
mysql> insert into student1 values(1, 'preethi', 'cse', 18,450);
Query OK, 1 row affected (0.22 sec)
mysql> insert into student1 values(2,'riya','cse',19,430);
Query OK, 1 row affected (0.19 sec)
mysql> insert into student1 values(3, 'meena', 'it', 19, 380);
Query OK, 1 row affected (0.13 sec)
mysql> insert into student1 values(4, 'john', 'cse', 19,480);
Query OK, 1 row affected (0.05 sec)
mysql> select*from student1;
+----+
| stuid | stuname | dept | age | total |
+----+
   1 | preethi | cse | 18 | 450 |
    2 | riya | cse | 19 | 430 |
               | it | 19 | 380 |
    3 meena
   4 | john | cse | 19 | 480 |
+----+
4 rows in set (0.00 sec)
mysql> create table student2(stuid int,stuname varchar(20),dept varchar(20),age
int,total int);
Query OK, 0 rows affected (0.30 sec)
mysql> insert into student2 values(1,'preethi','cse',18,450);
Query OK, 1 row affected (0.18 sec)
mysql> insert into student2 values(3,'meena','it',19,380);
Query OK, 1 row affected (0.15 sec)
mysql> insert into student2 values(5,'rosy','cse',20,480);
Query OK, 1 row affected (0.17 sec)
mysql> select*from student2;
+----+
| stuid | stuname | dept | age | total |
+----+
    1 | preethi | cse | 18 | 450 |
    3 | meena | it | 19 | 380 |
   5 | rosy | cse | 20 | 480 |
+----+
```

```
3 rows in set (0.00 sec)
mysql> SELECT stuname
   -> FROM student1
   -> WHERE EXISTS (SELECT 1 FROM student2 WHERE student1.stuid = student2.stuid);
+----+
stuname
+----+
| preethi |
l meena
+----+
2 rows in set (0.00 sec)
mysql> SELECT stuname
   -> FROM student1
   -> WHERE NOT EXISTS (SELECT 1 FROM student2 WHERE student1.stuid =
student2.stuid);
+----+
| stuname |
+----+
| riya
| john
+----+
2 rows in set (0.00 sec)
mysql> SELECT student1.stuid, student1.stuname, student1.age
   -> FROM student1, student2
   -> WHERE student1.stuid = student2.stuid;
+----+
| stuid | stuname | age |
+----+
   1 | preethi | 18 |
    3 | meena | 19 |
+----+
2 rows in set (0.00 sec)
mysql> SELECT student1.stuid, student1.stuname, student1.dept
   -> FROM student1, student2
   -> WHERE student1.stuid = student2.stuid
   -> AND student1.dept = 'cse'
   -> AND student2.dept = 'cse';
+----+
| stuid | stuname | dept |
+----+
    1 | preethi | cse |
+----+
1 row in set (0.23 sec)
mysql> SELECT student1.stuid, student1.stuname, student1.dept
   -> FROM student1, student2
```

```
-> AND student1.dept = 'cse'
   -> AND student2.dept = 'cse';
+----+
| stuid | stuname | dept |
+----+
    1 | preethi | cse |
    2 | riya
              cse
    2 | riya
              cse
    4 | john
              cse
    4 john
              | cse |
+----+
5 rows in set (0.01 sec)
mysql> SELECT a.stuid, a.dept
   -> FROM student1 a, student2 b
   -> WHERE a.stuid = b.stuid AND a.total > 400;
+----+
| stuid | dept |
+----+
   1 | cse |
+----+
1 row in set (0.00 sec)
mysql> select a.stuname,b.stuid from student1 a,student1 b where(a.dept=b.dept)and
a.dept='cse';
+----+
| stuname | stuid |
+----+
 john
            1 |
| riya
| preethi | 1 |
            2 |
| john
            2 |
| riya
| preethi |
            2 l
| john
riya
         4 |
preethi
+----+
9 rows in set (0.00 sec)
mysql> select distinct a.stuname,b.stuid from student1 a,student1 b
where(a.stuid=b.stuid and a.total>460);
+----+
| stuname | stuid |
+----+
+----+
1 row in set (0.18 sec)
```

-> WHERE student1.stuid <> student2.stuid

```
mysql> select distinct a.stuname,b.stuid from student1 a,student1 b
where(a.stuid=b.stuid);
+----+
| stuname | stuid |
+----+
 preethi |
          1 |
          2 l
| riya |
meena
+----+
4 rows in set (0.01 sec)
mysql> select student1.stuid, student1.stuname from student1 inner join student2 on
student1.stuid=student2.stuid;
+----+
| stuid | stuname |
+----+
   1 | preethi |
   3 meena
+----+
2 rows in set (0.10 sec)
mysql> select*from student1 inner join student2 on student1.stuid=student2.stuid;
+----+
| stuid | stuname | dept | age | total | stuid | stuname | dept | age | total |
1 | preethi | cse | 18 | 450 | 1 | preethi | cse | 18 | 450 |
   3 | meena | it | 19 | 380 | 3 | meena | it | 19 |
2 rows in set (0.00 sec)
mysql> select student1.age from student1 inner join student2 on
student1.stuid=student2.stuid;
+----+
age |
 18
 19
+----+
2 rows in set (0.00 sec)
mysql> SELECT student1.stuid, student1.stuname, student1.age
  -> FROM student1
  -> LEFT OUTER JOIN student2 ON student1.stuid = student2.stuid;
+----+
| stuid | stuname | age |
+-----
    1 | preethi |
               18 l
    2 | riya |
               19 l
    3 | meena |
               19
```

```
| 4 | john | 19 |
+----+
4 rows in set (0.00 sec)
```

mysql> select student1.stuid,student1.stuname,student1.age from student1 right outer join student2 on student1.stuid=student2.stuid;

	+ stuname	
3	preethi meena NULL	18 19 NULL

3 rows in set (0.00 sec)

mysql> SELECT student1.stuid, student1.stuname, student1.age

- -> FROM student1
- -> LEFT OUTER JOIN student2 ON student1.stuid = student2.stuid
- ->
- -> UNION
- ->
- -> SELECT student2.stuid, student2.stuname, student2.age
- -> FROM student2
- -> LEFT OUTER JOIN student1 ON student1.stuid = student2.stuid
- -> WHERE student1.stuid IS NULL;

++			
stuid	stuname	age	
++			
1	preethi	18	
2	riya	19	
3	meena	19	
4	john	19	
5	rosy	20	
+	+	++	

5 rows in set (0.18 sec)