

```
create database bms;
```

```
use bms;
```

```
Database changed
```

```
mysql> create table customers(cid int(10) primary key,cname varchar (30) not null,cadd varchar (50),cphno int(15));
```

```
Query OK, 0 rows affected, 2 warnings (0.03 sec)
```

```
mysql> create table products(pid int(10) primary key,pname varchar (30) not null,pcolor varchar (50),price int(15) not null);
```

```
Query OK, 0 rows affected, 2 warnings (0.02 sec)
```

```
mysql> create table purchase(pid int(10) ,cid int(10),bno int(10) not null,DOP date);
```

```
Query OK, 0 rows affected, 3 warnings (0.02 sec)
```

```
mysql> create table b_info(bno int(10),total_amount int(15) not null,cid int(10));
```

```
Query OK, 0 rows affected, 3 warnings (0.02 sec)
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_bms |
+-----+
| b_info      |
| customers   |
| products    |
| purchase    |
+-----+
```

```
4 rows in set (0.03 sec)
```

```
alter table products add pflavour varchar(50);
```

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

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

```
insert into products values(001,'cake','brown',250,'chocolate');
```

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

```
mysql> insert into products values(002,'cake','yellow',200,'butterscotch');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(003,'cake','white',220,'vanilla');
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into products values(004,'cake','black',480,'balck current');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(005,'cake','pink',210,'strawberry');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(006,'cake','white',210,'white forest');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(007,'cake','red',260,'Red velvet');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(008,'pastry','black',120,'black forest');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(009,'pastry','white',160,'vanilla');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(010,'pastry','brown',180,'chocolate');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(011,'bread','brown',80,'wheat');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into products values(012,'bread','white',80,'cheese');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into products values(013,'cream roll','yellow',80,'vanilla');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into products values(014,'candies','rainbow colors',380,'vanilla');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from products;
```

pid	pname	pcolor	price	pflavour
1	cake	brown	250	chocolate
2	cake	yellow	200	butterscotch
3	cake	white	220	vanilla
4	cake	black	480	balck current
5	cake	pink	210	strawberry
6	cake	white	210	white forest
7	cake	red	260	Red velvet
8	pastry	black	120	black forest
9	pastry	white	160	vanilla
10	pastry	brown	180	chocolate
11	bread	brown	80	wheat
12	bread	white	80	cheese
13	cream roll	yellow	80	vanilla
14	candies	rainbow colors	380	vanilla

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

```
insert into customers values(001,'Mr.Mittal','Mumbai',98563214);
```

Query OK, 1 row affected (0.00 sec)

```
insert into customers values(002,'Mr.Chaterjee','Pune',96541452);
```

Query OK, 1 row affected (0.00 sec)

```
insert into customers values(003,'Mrs.Malhotra','Banglore',97456258);
```

Query OK, 1 row affected (0.00 sec)

```
insert into customers values(004,'Ms.Desai','Shirdi',95863214);
```

Query OK, 1 row affected (0.00 sec)

```
insert into customers values(005,'Mr.Kulkarni','Kolhapur',94233568);
```

Query OK, 1 row affected (0.00 sec)

```
insert into customers values(006,'Mrs.Deshpande','Sambhajinagar',94563256);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select * from customers;
```

```
+----+-----+-----+-----+
| cid | cname   | cadd   | cphno |
+----+-----+-----+-----+
|  1 | Mr.Mittal | Mumbai | 98563214 |
|  2 | Mr.Chaterjee | Pune   | 96541452 |
|  3 | Mrs.Malhotra | Bangalore | 97456258 |
|  4 | Ms.Desai   | Shirdi  | 95863214 |
|  5 | Mr.Kulkarni | Kolhapur | 94233568 |
|  6 | Mrs.Deshpande | Sambhajinagar | 94563256 |
+----+-----+-----+-----+
```

6 rows in set (0.00 sec)

```
mysql> insert into purchase values(001,002,101,'2022-02-11');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into purchase values(002,004,101,'2023-04-22');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into purchase values(003,001,103,'2023-01-02');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into purchase values(004,003,104,'2022-05-13');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into purchase values(005,006,105,'2021-08-24');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into purchase values(012,005,106,'2023-06-04');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from purchase;
```

```
+-----+-----+-----+-----+
| pid  | cid  | bno  | DOP      |
+-----+-----+-----+-----+
| 1    | 2    | 101  | 2022-02-11 |
| 2    | 4    | 101  | 2023-04-22 |
| 3    | 1    | 103  | 2023-01-02 |
| 4    | 3    | 104  | 2022-05-13 |
| 5    | 6    | 105  | 2021-08-24 |
| 12   | 5    | 106  | 2023-06-04 |
+-----+-----+-----+-----+
```

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

```
mysql> insert into b_info values(101,1200,006);
```

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

```
mysql> insert into b_info values(102,2456,001);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into b_info values(103,896,005);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into b_info values(104,450,002);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into b_info values(105,3600,004);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into b_info values(106,2100,003);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from b_info;
```

```
+-----+-----+-----+
| bno | total_amount | cid |
+-----+-----+-----+
| 101 | 1200 | 6 |
| 102 | 2456 | 1 |
| 103 | 896 | 5 |
| 104 | 450 | 2 |
| 105 | 3600 | 4 |
| 106 | 2100 | 3 |
+-----+-----+-----+
```

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

```
mysql> update products set pflavour='vanilla' where pid=003;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
Rows matched: 1 Changed: 0 Warnings: 0
```

```
mysql> select * from products;
```

```
+-----+-----+-----+-----+-----+
| pid | pname | pcolor | price | pflavour |
+-----+-----+-----+-----+-----+
| 1 | cake | brown | 250 | chocolate |
| 2 | cake | yellow | 200 | butterscotch |
```

Queries:

```
mysql> select pname from products;
```

$$+-----+$$
$$+-----+$$

| cake |

| cake |

| cake |

| pastry |

| pastry |

bread
bread
cream roll
candies

+-----+

14 rows in set (0.00 sec)

2)Display all the customer names:

mysql> select cname from customers;

+-----+

cname

+-----+

Mr.Mittal

Mr.Chaterjee

Mrs.Malhotra

Ms.Desai

Mr.Kulkarni

Mrs.Deshpande

+-----+

6 rows in set (0.00 sec)

3)What is the price of the wheat bread?

mysql> select price from products where pname='bread' and pflavour='wheat';

+-----+

price

+-----+

80

+-----+

4)On which date customer with id 003 purchased the black coloured cake?

mysql> select DOP from purchase where cid=003 and pid=004;

+-----+

DOP

```
+-----+
| 2022-05-13 |
```

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

5)Display the product with the price Rs.380.

```
mysql> select pname from products where price=380;
```

```
+-----+
| pname |
+-----+
| candies |
+-----+
```

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

6)Which product is purchased by Mr.Mittal?

```
mysql> select pid from purchase where cid=003;
```

```
+-----+
| pid |
+-----+
| 4 |
+-----+
```

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

```
mysql> select pname from products where pid=004;
```

```
+-----+
| pname |
+-----+
| cake |
+-----+
```

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

7)Select the customer name with address 'pune'?

```
mysql> select cname from customers where cadd='Pune';
```

```
+-----+
```

```
| cname      |
+-----+
| Mr.Chaterjee |
+-----+
```

1 row in set (0.00 sec)

8)What was the total amount paid by the customer with id 003?

```
mysql> select total_amount from b_info where cid=003;
```

```
+-----+
| total_amount |
+-----+
|      2100 |
+-----+
```

1 row in set (0.00 sec)

9)Display the number of products with minimum price?

```
mysql> select count(*) from products;
```

```
+-----+
| count(*) |
+-----+
|      14 |
+-----+
```

1 row in set (0.01 sec)

```
mysql> select min(price) from products;
```

```
+-----+
| min(price) |
+-----+
|      80 |
+-----+
```

1 row in set (0.00 sec)

10)Display the name of the products with minimum price?

```
mysql> select pname from products where price=(select min(price) from products);
```

```

+-----+
| pname  |
+-----+
| bread  |
| bread  |
| cream roll |
+-----+

```

3 rows in set (0.00 sec)

mysql> create view cake as select * from products where pname='cake';

Query OK, 0 rows affected (0.01 sec)

mysql> select * from cake;

```

+----+-----+-----+-----+-----+
| pid | pname | pcolor | price | pflavour  |
+----+-----+-----+-----+-----+
| 1 | cake | brown | 250 | chocolate  |
| 2 | cake | yellow | 200 | butterscotch |
| 3 | cake | white | 220 | vanilla    |
| 4 | cake | black | 480 | balck current |
| 5 | cake | pink | 210 | strawberry  |
| 6 | cake | white | 210 | white forest |
| 7 | cake | red | 260 | Red velvet  |
+----+-----+-----+-----+-----+

```

7 rows in set (0.00 sec)

mysql> create view pastry as select * from products where pname='pastry';

Query OK, 0 rows affected (0.01 sec)

mysql> select * from pastry;

```

+----+-----+-----+-----+-----+
| pid | pname | pcolor | price | pflavour  |
+----+-----+-----+-----+-----+

```

```
| 8 | pastry | black | 120 | black forest |
| 9 | pastry | white | 160 | vanilla |
| 10 | pastry | brown | 180 | chocolate |
```

```
+-----+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> create view cake_details as select pid,pname,pflavour,pcolor,price from products;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select * from cake_details;
```

```
+-----+-----+-----+-----+-----+
| pid | pname | pflavour | pcolor | price |
+-----+-----+-----+-----+-----+
| 1 | cake | chocolate | brown | 250 |
| 2 | cake | butterscotch | yellow | 200 |
| 3 | cake | vanilla | white | 220 |
| 4 | cake | balck current | black | 480 |
| 5 | cake | strawberry | pink | 210 |
| 6 | cake | white forest | white | 210 |
| 7 | cake | Red velvet | red | 260 |
| 8 | pastry | black forest | black | 120 |
| 9 | pastry | vanilla | white | 160 |
| 10 | pastry | chocolate | brown | 180 |
| 11 | bread | wheat | brown | 80 |
| 12 | bread | cheese | white | 80 |
| 13 | cream roll | vanilla | yellow | 80 |
| 14 | candies | vanilla | rainbow colors | 380 |
+-----+-----+-----+-----+-----+
```

14 rows in set (0.00 sec)

1)List the product names in the price range 100 to 250.

```
mysql> select pname from products WHERE price BETWEEN 100 AND 250;
```

```
+-----+
```

```
| pname |
```

```
+-----+
```

```
| cake |
```

```
| cake |
```

```
| cake |
```

```
| cake |
```

```
| cake |
```

```
| pastry |
```

```
| pastry |
```

```
| pastry |
```

```
+-----+
```

8 rows in set (0.00 sec)

2)List the customer names who belong to Pune Or Mumbai City.

```
mysql> select cname from customers WHERE cadd IN('Mumbai','Pune');
```

```
+-----+
```

```
| cname |
```

```
+-----+
```

```
| Mr.Mittal |
```

```
| Mr.Chaterjee |
```

```
+-----+
```

2 rows in set (0.00 sec)

3)List the names of the customers whose name ends with letter A.

```
mysql> select cname from customers WHERE cname LIKE '%a';
```

```
+-----+
```

```
| cname |
```

```
+-----+
```

```
| Mrs.Malhotra |
```

```
+-----+
```

1 row in set (0.00 sec)

4)Display customer name who has eight characters in their name.

```
mysql> select cname from customers WHERE cname LIKE '_____';
```

```
+-----+
```

```
| cname |
```

```
+-----+
```

```
| Ms.Desai |
```

```
+-----+
```

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