

1. Create a table called products(id, name, price, manufacturer)

Constraints:

Name and Price are compulsory to fill.

Each product's price should be more than 100.

Manufacturer should be 'ABC' if not given by the user.

```
MariaDB [dbms_practice]> create table produucts(
  -> id int primary key,
  -> name varchar(30) not null,
  -> price int not null check(price>100),
  -> manufacturer varchar(30) default 'ABC'
  -> );
Query OK, 0 rows affected (0.059 sec)
```

2. Insert at least 10 tuples with different data in the products table.

```
MariaDB [dbms_practice]> INSERT INTO products (id, name, price, manufacturer) VALUES
  -> (1, 'Laptop', 600, 'Dell'),
  -> (2, 'Smartphone', 700, 'Apple'),
  -> (3, 'Monitor', 450, 'Acer'),
  -> (4, 'Headphones', 250, 'Asus'),
  -> (5, 'Smartwatch', 800, 'Tesla'),
  -> (6, 'Keyboard', 150, 'Titan'),
  -> (7, 'Mouse', 200, 'Fastrack'),
  -> (8, 'Graphics Card', 1200, 'CG Group'),
  -> (9, 'Power Bank', 300, 'Meta Tree'),
  -> (10, 'Chips', 550, 'Nestle');
Query OK, 10 rows affected (0.007 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

3. Select all the products whose price is between 400 to 800.

```
MariaDB [dbms_practice]> select * from products where price between 400 and 800;
+----+-----+-----+-----+
| id | name      | price | manufacturer |
+----+-----+-----+-----+
| 1  | Laptop    | 600   | Dell         |
| 2  | Smartphone| 700   | Apple        |
| 3  | Monitor   | 450   | Acer         |
| 5  | Smartwatch| 800   | Tesla        |
| 10 | Chips     | 550   | Nestle       |
+----+-----+-----+-----+
5 rows in set (0.000 sec)
```

4. Select all the products whose price range is not in 200 to 300.

```
MariaDB [dbms_practice]> select * from products where price not between 200 and 300;
```

id	name	price	manufacturer
1	Laptop	600	Dell
2	Smartphone	700	Apple
3	Monitor	450	Acer
5	Smartwatch	800	Tesla
6	Keyboard	150	Titan
8	Graphics Card	1200	CG Group
10	Chips	550	Nestle

```
7 rows in set (0.000 sec)
```

5. Select all the products whose manufacturer is 'Dell', 'Acer', 'Asus', 'Apple', 'Tesla', 'Titan' and 'Fastrack'.

```
MariaDB [dbms_practice]> select * from products where manufacturer in ('Dell','Acer','Asus','Apple','Tesla','Titan','Fastrack');
```

id	name	price	manufacturer
1	Laptop	600	Dell
2	Smartphone	700	Apple
3	Monitor	450	Acer
4	Headphones	250	Asus
5	Smartwatch	800	Tesla
6	Keyboard	150	Titan
7	Mouse	200	Fastrack

```
7 rows in set (0.000 sec)
```

6. Select all the products which are not manufactured by 'Meta Tree', 'CG', and 'BMW'.

```
MariaDB [dbms_practice]> select * from products where manufacturer not in ('Meta Tree','CG Group','BMW');
```

id	name	price	manufacturer
1	Laptop	600	Dell
2	Smartphone	700	Apple
3	Monitor	450	Acer
4	Headphones	250	Asus
5	Smartwatch	800	Tesla
6	Keyboard	150	Titan
7	Mouse	200	Fastrack
10	Chips	550	Nestle

```
8 rows in set (0.000 sec)
```

7. Change the price of the product to exactly 500 which contain 'ap' in their name.

```
MariaDB [dbms_practice]> update products set price=500 where name like '%a%p%' or name like '%p%a%';  
Query OK, 3 rows affected (0.004 sec)  
Rows matched: 5 Changed: 3 Warnings: 0
```

```
MariaDB [dbms_practice]> select * from products;
```

id	name	price	manufacturer
1	Laptop	500	Dell
2	Smartphone	500	Apple
3	Monitor	450	Acer
4	Headphones	500	Asus
5	Smartwatch	800	Tesla
6	Keyboard	150	Titan
7	Mouse	200	Fastrack
8	Graphics Card	500	CG Group
9	Power Bank	500	Meta Tree
10	Chips	550	Nestle

```
10 rows in set (0.000 sec)
```

8. Select the products either having price more than 500 or is produced by 'CG Group'.

```
MariaDB [dbms_practice]> select * from products where price > 500 or manufacturer='CG Group';
```

id	name	price	manufacturer
5	Smartwatch	800	Tesla
8	Graphics Card	500	CG Group
10	Chips	550	Nestle

```
3 rows in set (0.000 sec)
```

9. Select the products which have price in exactly three digits and name the column as Most\_Demanded\_Products.

```
MariaDB [dbms_practice]> select name as MOST_DEMANDED_PRODUCTS from products where price like '___';
```

MOST_DEMANDED_PRODUCTS
Laptop
Smartphone
Monitor
Headphones
Smartwatch
Keyboard
Mouse
Graphics Card
Power Bank
Chips

```
10 rows in set (0.000 sec)
```

10. Create another table called product\_copy having exact columns and data as product table.

```
MariaDB [dbms_practice]> create table product_copy as select * from products;
```

Query OK, 10 rows affected (0.124 sec)  
Records: 10 Duplicates: 0 Warnings: 0

11. Display all the details of product\_copy table.

```
MariaDB [dbms_practice]> select * from product_copy;
```

id	name	price	manufacturer
1	Laptop	500	Dell
2	Smartphone	500	Apple
3	Monitor	450	Acer
4	Headphones	500	Asus
5	Smartwatch	800	Tesla
6	Keyboard	150	Titan
7	Mouse	200	Fastrack
8	Graphics Card	500	CG Group
9	Power Bank	500	Meta Tree
10	Chips	550	Nestle

```
10 rows in set (0.001 sec)
```

12. Select the entire manufacturer name but don't repeat the same name.

```
MariaDB [dbms_practice]> select distinct manufacturer from products;
```

manufacturer
Dell
Apple
Acer
Asus
Tesla
Titan
Fastrack
CG Group
Meta Tree
Nestle

```
10 rows in set (0.002 sec)
```

13. Select the products whose price is 500, 6000, 300, 900, 800, 1200, 1500, 400.

```
MariaDB [dbms_practice]> select * from products where price in (500,6000,300,900,800,1200,1500,400);
```

id	name	price	manufacturer
1	Laptop	500	Dell
2	Smartphone	500	Apple
4	Headphones	500	Asus
5	Smartwatch	800	Tesla
8	Graphics Card	500	CG Group
9	Power Bank	500	Meta Tree

```
6 rows in set (0.000 sec)
```

14. Select the products having names as candies, chips, chocolate and price is more than 500.

```
MariaDB [dbms_practice]> select * from products where name in ('candles','chips','chocolate')
-> and price > 500;
+-----+-----+-----+-----+
| id | name  | price | manufacturer |
+-----+-----+-----+-----+
| 10 | Chips | 550   | Nestle       |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

15. Delete the products manufactured by 'Nestle'.

```
MariaDB [dbms_practice]> delete from products where manufacturer='Nestle';
Query OK, 1 row affected (0.005 sec)
```