Create table Employee(Emp id, emp name, empdesignation, emplevel,emp address)

Insert 10 records

Execute all queries (alter, update, delete,drop,modify,rename table,rename column etc)

Take screenshot of the screen and Put in the word document .

1. **Show databases**

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| test1              |
| world              |
+--------------------+
7 rows in set (0.08 sec)
```

2. **Create database;**

```
mysql> create database vikas;
Query OK, 1 row affected (0.14 sec)
```

```
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| test1              |
| vikas              |
| world              |
+--------------------+
```

3. **Use database name ;**

```
mysql> use vikas;
Database changed
```

4. Create table employee

```
mysql> create table  employee (Emp_id int(5), emp_name char(20), emp_designation
 char(10), emp_level char (10),emp_address char (20));
Query OK, 0 rows affected, 1 warning (2.38 sec)
```

5. Show table

```
mysql> show tables;
+------------------+
| Tables_in_vikas  |
+------------------+
| employee         |
+------------------+
1 row in set (0.11 sec)
```

6. Insert into employee

```
mysql> insert into employee values (1,'chandramauli','manager','A+','vijaywada')
;
Query OK, 1 row affected (0.16 sec)
```

With data 10 employee process is recurring

7. Select* from table

```
mysql> select *from employee;
+--------+--------------+-----------------+-----------+--------------+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address  |
+--------+--------------+-----------------+-----------+--------------+
|      1 | chandramauli | manager         | A+        | vijaywada    |
|      2 | aisha        | CEO             | A+        | tirvantpuram |
|      3 | JAYA         | CTO             | A         | UP           |
|      4 | Amitabh      | Assistant       | B+        | UP           |
|      5 | Keshav       | Assistant       | B+        | Rajasthan    |
|      6 | vijayalakshmi| sales           | B         | tamilnadu    |
|      7 | Vikas        | sales           | B         | Maharashtra  |
|      8 | mohan        | sales           | B         | Maharashtra  |
|      9 | samantha     | marketing       | B         | andhrapradesh|
|     10 | kaushik      | marketing       | B         | madhyapradesh|
+--------+--------------+-----------------+-----------+--------------+
10 rows in set (0.03 sec)

mysql>
```

8. Rename table

```
mysql> rename table employee to emp;
Query OK, 0 rows affected (1.10 sec)

mysql>
```

```
mysql> select *from emp;
+--------+---------------+-----------------+-----------+---------------+
| Emp_id | emp_name      | emp_designation | emp_level | emp_address   |
+--------+---------------+-----------------+-----------+---------------+
|      1 | chandramauli  | manager         | A+        | vijaywada     |
|      2 | aisha         | CEO             | A+        | tirvantpuram  |
|      3 | JAYA          | CTO             | A         | UP            |
|      4 | Amitabh       | Assistant       | B+        | UP            |
|      5 | Keshav        | Assistant       | B+        | Rajasthan     |
|      6 | vijayalakshmi | sales           | B         | tamilnadu     |
|      7 | Vikas         | sales           | B         | Maharashtra   |
|      8 | mohan         | sales           | B         | Maharashtra   |
|      9 | samantha      | marketing       | B         | andhrapradesh |
|     10 | kaushik       | marketing       | B         | madhyapradesh |
+--------+---------------+-----------------+-----------+---------------+
10 rows in set (0.08 sec)
```

9. Rename column

```
mysql> alter table emp rename column  emp_name to name;
Query OK, 0 rows affected (0.51 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select *from emp;
+--------+---------------+-----------------+-----------+---------------+
|        | name          | emp_designation | emp_level | emp_address   |
+--------+---------------+-----------------+-----------+---------------+
|      1 | chandramauli  | manager         | A+        | vijaywada     |
|      2 | aisha         | CEO             | A+        | tirvantpuram  |
|      3 | JAYA          | CTO             | A         | UP            |
|      4 | Amitabh       | Assistant       | B+        | UP            |
|      5 | Keshav        | Assistant       | B+        | Rajasthan     |
|      6 | vijayalakshmi | sales           | B         | tamilnadu     |
|      7 | Vikas         | sales           | B         | Maharashtra   |
|      8 | mohan         | sales           | B         | Maharashtra   |
|      9 | samantha      | marketing       | B         | andhrapradesh |
|     10 | kaushik       | marketing       | B         | madhyapradesh |
+--------+---------------+-----------------+-----------+---------------+
10 rows in set (0.03 sec)

mysql>
```
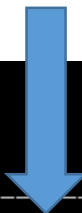
10 adding a column

```
     alter table employee add status char (20);
Query OK, 0 rows affected (0.69 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select *from employee;
+--------+--------------+-----------------+-----------+---------------+--------+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address   | status |
+--------+--------------+-----------------+-----------+---------------+--------+
|      1 | chandramauli | manager         | A+        | vijaywada     | NULL   |
|      2 | aisha        | CEO             | A+        | tirvantpuram  | NULL   |
|      3 | JAYA         | CTO             | A         | UP            | NULL   |
|      4 | Amitabh      | Assistant       | B+        | UP            | NULL   |
|      5 | Keshav       | Assistant       | B+        | Rajasthan     | NULL   |
|      6 | vijayalakshmi| sales           | B         | tamilnadu     | NULL   |
|      7 | Vikas        | sales           | B         | Maharashtra   | NULL   |
|      8 | mohan        | sales           | B         | Maharashtra   | NULL   |
|      9 | samantha     | marketing       | B         | andhrapradesh | NULL   |
|     10 | kaushik      | marketing       | B         | madhyapradesh | NULL   |
+--------+--------------+-----------------+-----------+---------------+--------+
10 rows in set (0.00 sec)
```

11Updating column

```
mysql> update employee set status='online'where emp_id=1;
Query OK, 1 row affected (0.10 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee set status='online'where emp_id=2;
Query OK, 1 row affected (0.19 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee set status='offline'where emp_id=3;
Query OK, 1 row affected (0.12 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee set status='online'where emp_id=4;
Query OK, 1 row affected (0.10 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee set status='none'where emp_id=5;
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select *from employee;
```

Emp_id	emp_name	emp_designation	emp_level	emp_address	status
1	chandramauli	manager	A+	vijaywada	online
2	aisha	CEO	A+	tirvantpuram	online
3	JAYA	CTO	A	UP	offline
4	Amitabh	Assistant	B+	UP	online
5	Keshav	Assistant	B+	Rajasthan	none
6	vijayalakshmi	sales	B	tamilnadu	NULL
7	Vikas	sales	B	Maharashtra	NULL
8	mohan	sales	B	Maharashtra	NULL
9	samantha	marketing	B	andhrapradesh	NULL
10	kaushik	marketing	B	madhyapradesh	NULL

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

12.Drop column

```
    > alter table employee drop status ;
Query OK, 0 rows affected (2.90 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select *from employee;
+--------+--------------+-----------------+-----------+---------------+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address   |
+--------+--------------+-----------------+-----------+---------------+
|      1 | chandramauli | manager         | A+        | vijaywada     |
|      2 | aisha        | CEO             | A+        | tirvantpuram  |
|      3 | JAYA         | CTO             | A         | UP            |
|      4 | Amitabh      | Assistant       | B+        | UP            |
|      5 | Keshav       | Assistant       | B+        | Rajasthan     |
|      6 | vijayalakshmi| sales           | B         | tamilnadu     |
|      7 | Vikas        | sales           | B         | Maharashtra   |
|      8 | mohan        | sales           | B         | Maharashtra   |
|      9 | samantha     | marketing       | B         | andhrapradesh |
|     10 | kaushik      | marketing       | B         | madhyapradesh |
+--------+--------------+-----------------+-----------+---------------+
10 rows in set (0.00 sec)
```

13. delete row from table

```
    > delete from employee where emp_id=5;
Query OK, 1 row affected (0.12 sec)

mysql> select *from employee;
+--------+--------------+-----------------+-----------+---------------+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address   |
+--------+--------------+-----------------+-----------+---------------+
|      1 | chandramauli | manager         | A+        | vijaywada     |
|      2 | aisha        | CEO             | A+        | tirvantpuram  |
|      3 | JAYA         | CTO             | A         | UP            |
|      4 | Amitabh      | Assistant       | B+        | UP            |
|      6 | vijayalakshmi| sales           | B         | tamilnadu     |
|      7 | Vikas        | sales           | B         | Maharashtra   |
|      8 | mohan        | sales           | B         | Maharashtra   |
|      9 | samantha     | marketing       | B         | andhrapradesh |
|     10 | kaushik      | marketing       | B         | madhyapradesh |
+--------+--------------+-----------------+-----------+---------------+
9 rows in set (0.03 sec)
```

14 modify

```
1> alter table employee modify column emp_designation char(30) ;
Query OK, 9 rows affected (3.42 sec)
Records: 9  Duplicates: 0  Warnings: 0

> update employee set emp_designation='Assistant manager'where emp_id=4;
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select *from employee;
+--------+--------------+-------------------+-----------+----------------+
| Emp_id | emp_name     | emp_designation   | emp_level | emp_address    |
+--------+--------------+-------------------+-----------+----------------+
|      1 | chandramauli | manager           | A+        | vijaywada      |
|      2 | aisha        | CEO               | A+        | tirvantpuram   |
|      3 | JAYA         | CTO               | A         | UP             |
|      4 | Am           | Assistant manager | B+        | UP             |
|      6 | vijayalakshmi| sales             | B         | tamilnadu      |
|      7 | Vikas        | sales             | B         | Maharashtra    |
|      8 | mohan        | sales             | B         | Maharashtra    |
|      9 | samantha     | marketing         | B         | andhrapradesh  |
|     10 | kaushik      | marketing         | B         | madhyapradesh  |
+--------+--------------+-------------------+-----------+----------------+
9 rows in set (0.00 sec)
```

14 set autocommit=0;

```
mysql> set autocommit=0;
Query OK, 0 rows affected (0.00 sec)
```

15. savepoint save point name;

```
mysql> savepoint upd1;
Query OK, 0 rows affected (0.00 sec)

mysql> update employee set emp_address='up' where emp_id=3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

16 Roll Back to savepoint name;

```
mysql> rollback to upd1;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from employee;
+--------+--------------+-----------------+-----------+----------------+------
---+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address    | sala
ry |
+--------+--------------+-----------------+-----------+----------------+------
---+
|      1 | chandramauli | manager         | A+        | andhra pradesh | 1000
00 |
|      2 | aisha        | CEO             | A+        | Kerala         |  190
00 |
|      3 | JAYA         | CTO             |           | uterpradeh     |  250
00 |
```

17. commit

```
mysql> commit;
Query OK, 0 rows affected (0.07 sec)

mysql> select * from employee;
+--------+--------------+-----------------+-----------+-----------------+------
---+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address     | sala
ry |
+--------+--------------+-----------------+-----------+-----------------+------
---+
|      1 | chandramauli | manager         | A+        | andhra pradesh  | 1000
00 |
|      2 | aisha        | CEO             | A+        | Kerala          |  190
00 |
|      3 | JAYA         | CTO             | A         | up              |  250
00 |
|      4 | Amitabh      | Assistant manager | B+      | haryana         |  800
00 |
|      6 | vijayalakshmi | sales          | B         | tamilnadu       |  145
00 |
|      7 | Vikas        | sales           | B         | Maharashtra     |  301
45 |
|      8 | mohan        | sales           | c+        | Maharashtra     |  200
00 |
|      9 | samantha     | marketing       | B         | andhrapradesh   |  170
00 |
|     10 | kaushik      | marketing       | c         | madhyapradesh   |  145
21 |
+--------+--------------+-----------------+-----------+-----------------+------
---+
```

18. Filtering on a single condition

```
|   at line 1
mysql>    Select emp_name,emp_level from employee where emp_name='amitabh';
+----------+-----------+
| emp_name | emp_level |
+----------+-----------+
| Amitabh  | B+        |
+----------+-----------+
1 row in set (0.00 sec)
```

19. Filtering on a single value

```
mysql>    Select emp_name,emp_level,emp_designation from employee where emp_addr
ess='andhra pradesh';
+--------------+-----------+-----------------+
| emp_name     | emp_level | emp_designation |
+--------------+-----------+-----------------+
| chandramauli | A+        | manager         |
+--------------+-----------+-----------------+
1 row in set (0.00 sec)
```

20 Filtering with a range of values:

```
mysql>    Select emp_name,emp_designation from employee where emp_level between
'A+'and 'c';
+-----------------+-------------------+
| emp_name        | emp_designation   |
+-----------------+-------------------+
| chandramauli    | manager           |
| aisha           | CEO               |
| Amitabh         | Assistant manager |
| vijayalakshmi   | sales             |
| Vikas           | sales             |
| samantha        | marketing         |
| kaushik         | marketing         |
+-----------------+-------------------+
```

21. IN operator

```
mysql> select * from employee where emp_name IN('vikas','mohan') ;
+--------+----------+-----------------+-----------+-------------+--------+
| Emp_id | emp_name | emp_designation | emp_level | emp_address | salary |
+--------+----------+-----------------+-----------+-------------+--------+
|      7 | Vikas    | sales           | B         | Maharashtra | 30145  |
|      8 | mohan    | sales           | c+        | Maharashtra | 20000  |
+--------+----------+-----------------+-----------+-------------+--------+
2 rows in set (0.01 sec)
```

22. OR Operator

```
mysql> select * from employee where emp_level <'A+' or emp_level<'B+';
+--------+---------------+-----------------+-----------+----------------+--------+
| Emp_id | emp_name      | emp_designation | emp_level | emp_address    | salary |
+--------+---------------+-----------------+-----------+----------------+--------+
|      1 | chandramauli  | manager         | A+        | andhra pradesh | 100000 |
|      2 | aisha         | CEO             | A+        | Kerala         | 19000  |
|      3 | JAYA          | CTO             | A         | up             | 25000  |
|      6 | vijayalakshmi | sales           | B         | tamilnadu      | 14500  |
|      7 | Vikas         | sales           | B         | Maharashtra    | 30145  |
|      9 | samantha      | marketing       | B         | andhrapradesh  | 17000  |
+--------+---------------+-----------------+-----------+----------------+--------+
6 rows in set (0.00 sec)
```

23. AND Operator

```
mysql> select * from employee where salary <100000 and salary>20000;
+--------+----------+-------------------+-----------+-------------+--------+
| Emp_id | emp_name | emp_designation   | emp_level | emp_address | salary |
+--------+----------+-------------------+-----------+-------------+--------+
|      3 | JAYA     | CTO               | A         | up          | 25000  |
|      4 | Amitabh  | Assistant manager | B+        | haryana     | 80000  |
|      7 | Vikas    | sales             | B         | Maharashtra | 30145  |
+--------+----------+-------------------+-----------+-------------+--------+
3 rows in set (0.00 sec)
```

24. NOT Operator

```
mysql> select * from employee where not salary>20000;
+--------+--------------+-----------------+-----------+----------------+--------+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address    | salary |
+--------+--------------+-----------------+-----------+----------------+--------+
|      2 | aisha        | CEO             | A+        | Kerala         |  19000 |
|      6 | vijayalakshmi| sales           | B         | tamilnadu      |  14500 |
|      8 | mohan        | sales           | c+        | Maharashtra    |  20000 |
|      9 | samantha     | marketing       | B         | andhrapradesh  |  17000 |
|     10 | kaushik      | marketing       | c         | madhyapradesh  |  14521 |
+--------+--------------+-----------------+-----------+----------------+--------+
5 rows in set (0.00 sec)
```

25. LIKE Operator

```
mysql> select * from employee where emp_name like 'V%';
+--------+--------------+-----------------+-----------+----------------+--------+
| Emp_id | emp_name     | emp_designation | emp_level | emp_address    | salary |
+--------+--------------+-----------------+-----------+----------------+--------+
|      6 | vijayalakshmi| sales           | B         | tamilnadu      |  14500 |
|      7 | Vikas        | sales           | B         | Maharashtra    |  30145 |
+--------+--------------+-----------------+-----------+----------------+--------+
2 rows in set (0.03 sec)
```

26 ORDER BY

```
mysql> select * from employee order by emp_name;
+--------+--------------+------------------+-----------+-----------------+------+
---+
| Emp_id | emp_name     | emp_designation  | emp_level | emp_address     | sala
ry |
+--------+--------------+------------------+-----------+-----------------+------+
---+
|      2 | aisha        | CEO              | A+        | Kerala          |  190
00 |
|      4 | Amitabh      | Assistant manager| B+        | haryana         |  800
00 |
|      1 | chandramauli | manager          | A+        | andhra pradesh  | 1000
00 |
|      3 | JAYA         | CTO              | A         | up              |  250
00 |
|     10 | kaushik      | marketing        | c         | madhyapradesh   |  145
21 |
|      8 | mohan        | sales            | c+        | Maharashtra     |  200
00 |
|      9 | samantha     | marketing        | B         | andhrapradesh   |  170
00 |
|      6 | vijayalakshmi| sales            | B         | tamilnadu       |  145
00 |
|      7 | Vikas        | sales            | B         | Maharashtra     |  301
45 |
+--------+--------------+------------------+-----------+-----------------+------+
---+
9 rows in set (0.04 sec)
```

27. GROUP BY

```
mysql> Select  emp_id, emp_name from employee  group by emp_address;
+--------+--------------+
| emp_id | emp_name     |
+--------+--------------+
|      1 | chandramauli |
|      2 | aisha        |
|      3 | JAYA         |
|      4 | Amitabh      |
|      6 | vijayalakshmi|
|      7 | Vikas        |
|      9 | samantha     |
|     10 | kaushik      |
+--------+--------------+
8 rows in set (0.05 sec)
```

28. COUNT:

```
mysql> Select count(emp_name) from employee where salary= 20000;
+-----------------+
| count(emp_name) |
+-----------------+
|               1 |
+-----------------+
 row in set (0.00 sec)
```

29.Avg

```
mysql> Select AVG(salary) from employee;
+-------------+
| AVG(salary) |
+-------------+
|  35574.0000 |
+-------------+
1 row in set (0.03 sec)

mysql> Select AVG(salary) from employee where emp_address='maharashtra';
+-------------+
| AVG(salary) |
+-------------+
|  25072.5000 |
+-------------+
1 row in set (0.00 sec)
```

30 SUM

```
mysql> Select SUM(salary) from employee where emp_designation='sales';
+-------------+
| SUM(salary) |
+-------------+
|       64645 |
+-------------+
1 row in set (0.00 sec)

mysql> Select SUM(salary) from employee;
+-------------+
| SUM(salary) |
+-------------+
|      320166 |
+-------------+
1 row in set (0.00 sec)
```

31. max

```
mysql> Select MAx(salary) from employee where emp_designation='sales';
+-------------+
| MAx(salary) |
+-------------+
|       30145 |
+-------------+
1 row in set (0.03 sec)

mysql> Select MAx(salary) from employee;
+-------------+
| MAx(salary) |
+-------------+
|      100000 |
+-------------+
1 row in set (0.00 sec)
```

32. Min

```
mysql> Select Min(salary) from employee where emp_designation='sales';
+-------------+
| Min(salary) |
+-------------+
|       14500 |
+-------------+
1 row in set (0.00 sec)

mysql> Select Min(salary) from employee;
+-------------+
| Min(salary) |
+-------------+
|       14500 |
+-------------+
1 row in set (0.00 sec)
```

33. Wildcard operators

Like operator

```
mysql> select * from employee where emp_name like'a%';
+--------+----------+-------------------+-----------+--------------+--------+
| Emp_id | emp_name | emp_designation   | emp_level | emp_address  | salary |
+--------+----------+-------------------+-----------+--------------+--------+
|      2 | aisha    | CEO               | A+        | Kerala       |  19000 |
|      4 | Amitabh  | Assistant manager | B+        | haryana      |  80000 |
+--------+----------+-------------------+-----------+--------------+--------+
2 rows in set (0.00 sec)

mysql> select * from employee where emp_name like'%a';
+--------+----------+-----------------+-----------+---------------+--------+
| Emp_id | emp_name | emp_designation | emp_level | emp_address   | salary |
+--------+----------+-----------------+-----------+---------------+--------+
|      2 | aisha    | CEO             | A+        | Kerala        |  19000 |
|      3 | JAYA     | CTO             | A         | up            |  25000 |
|      9 | samantha | marketing       | B         | andhrapradesh |  17000 |
+--------+----------+-----------------+-----------+---------------+--------+
3 rows in set (0.00 sec)

mysql> select * from employee where emp_name like'%as%';
+--------+----------+-----------------+-----------+-------------+--------+
| Emp_id | emp_name | emp_designation | emp_level | emp_address | salary |
+--------+----------+-----------------+-----------+-------------+--------+
|      7 | Vikas    | sales           | B         | Maharashtra |  30145 |
+--------+----------+-----------------+-----------+-------------+--------+
1 row in set (0.00 sec)

mysql> select * from employee where emp_name like'_s%';
Empty set (0.00 sec)

mysql> select * from employee where emp_name like'_n%';
Empty set (0.00 sec)

mysql> select * from employee where emp_name like'_a%';
+--------+----------+-----------------+-----------+---------------+--------+
| Emp_id | emp_name | emp_designation | emp_level | emp_address   | salary |
+--------+----------+-----------------+-----------+---------------+--------+
|      3 | JAYA     | CTO             | A         | up            |  25000 |
|      9 | samantha | marketing       | B         | andhrapradesh |  17000 |
|     10 | kaushik  | marketing       | c         | madhyapradesh |  14521 |
+--------+----------+-----------------+-----------+---------------+--------+
3 rows in set (0.00 sec)
```

```
mysql> select * from employee where emp_name like'v_%_%';
+--------+---------------+-----------------+-----------+--------------+--------+
| Emp_id | emp_name      | emp_designation | emp_level | emp_address  | salary |
+--------+---------------+-----------------+-----------+--------------+--------+
|      6 | vijayalakshmi | sales           | B         | tamilnadu    |  14500 |
|      7 | Vikas         | sales           | B         | Maharashtra  |  30145 |
+--------+---------------+-----------------+-----------+--------------+--------+
2 rows in set (0.00 sec)

mysql> select * from employee where emp_name like'a_%a';
+--------+----------+-----------------+-----------+-------------+--------+
| Emp_id | emp_name | emp_designation | emp_level | emp_address | salary |
+--------+----------+-----------------+-----------+-------------+--------+
|      2 | aisha    | CEO             | A+        | Kerala      |  19000 |
+--------+----------+-----------------+-----------+-------------+--------+
1 row in set (0.00 sec)

mysql> select * from employee where emp_name like'j_%a';
+--------+----------+-----------------+-----------+-------------+--------+
| Emp_id | emp_name | emp_designation | emp_level | emp_address | salary |
+--------+----------+-----------------+-----------+-------------+--------+
|      3 | JAYA     | CTO             | A         | up          |  25000 |
+--------+----------+-----------------+-----------+-------------+--------+
1 row in set (0.00 sec)
```

34 subqueries

```
mysql> select * from customers;
+------+----------+------+--------+
| id   | name     | age  | salary |
+------+----------+------+--------+
|    1 | poonam   |   21 |   1123 |
|    2 | jagdeesh |   23 |   1453 |
|    3 | rohan    |   24 |  24510 |
|    4 | sonali   |   26 |  12000 |
+------+----------+------+--------+
4 rows in set (0.00 sec)

mysql> select * from orders;
+-------+--------+---------+--------+
| ordid | custid | product | amount |
+-------+--------+---------+--------+
|    11 |      1 | chair   |  12345 |
|    12 |      3 | table   |   1100 |
|    13 |      4 | pen     |   1500 |
|    14 |      2 | books   |   2234 |
+-------+--------+---------+--------+
4 rows in set (0.00 sec)

mysql> SELECT name FROM Customers WHERE ID = (SELECT custid FROM Orders WHERE Or
did = 12);
+-------+
| name  |
+-------+
| rohan |
+-------+
1 row in set (0.00 sec)
```

35 joins

```
mysql> Select id, name, age, product, amount from customers, orders where custom
ers.id= orders.Custid;
+------+----------+------+---------+--------+
| id   | name     | age  | product | amount |
+------+----------+------+---------+--------+
|    1 | poonam   |   21 | chair   |  12345 |
|    3 | rohan    |   24 | table   |   1100 |
|    4 | sonali   |   26 | pen     |   1500 |
|    2 | jagdeesh |   23 | books   |   2234 |
+------+----------+------+---------+--------+
4 rows in set (0.00 sec)
```

36. inner join

```
mysql> SELECT   name   FROM   customers   INNER JOIN orders ON customers.id = orders.custid;
+----------+
| name     |
+----------+
| poonam   |
| rohan    |
| sonali   |
| jagdeesh |
+----------+
4 rows in set (0.00 sec)
mysql> SELECT   age   FROM   customers   INNER JOIN orders ON customers.id = orders.custid;
+------+
| age  |
+------+
|   21 |
|   24 |
|   26 |
|   23 |
+------+
4 rows in set (0.00 sec)
```

37. left join

```
mysql> SELECT customers.name, orders.product FROM customers LEFT JOIN orders ON customers.id = order
s.custid;
+----------+---------+
| name     | product |
+----------+---------+
| poonam   | chair   |
| jagdeesh | books   |
| rohan    | table   |
| sonali   | pen     |
+----------+---------+
4 rows in set (0.00 sec)
```

38.Right joins

```
mysql> SELECT customers.name, orders.product FROM customers
    -> RIGHT JOIN orders ON customers.id = orders.custid;
+----------+---------+
| name     | product |
+----------+---------+
| poonam   | chair   |
| rohan    | table   |
| sonali   | pen     |
| jagdeesh | books   |
+----------+---------+
4 rows in set (0.00 sec)
```

39 Full Join

```
mysql> SELECT customers.name, orders.product FROM customers LEFT JOIN orders ON customers.id = orders.custid
    -> union all
    -> SELECT customers.name, orders.product FROM customers RIGHT JOIN orders ON customers.id = orders.custid;
+----------+---------+
| name     | product |
+----------+---------+
| poonam   | chair   |
| jagdeesh | books   |
| rohan    | table   |
| sonali   | pen     |
| poonam   | chair   |
| rohan    | table   |
| sonali   | pen     |
| jagdeesh | books   |
+----------+---------+
8 rows in set (0.07 sec)
```

40. self join

```
mysql> SELECT a.name , b.age
    -> FROM customers a, customers b
    -> where a.age<b.age;
+----------+-----+
| name     | age |
+----------+-----+
| poonam   |  23 |
| jagdeesh |  24 |
| poonam   |  24 |
| rohan    |  26 |
| jagdeesh |  26 |
| poonam   |  26 |
+----------+-----+
6 rows in set (0.00 sec)
```

41. Cartesian join

```
mysql> SELECT customers.name , customers.salary, orders.product
    -> FROM customers CROSS JOIN orders;
+----------+--------+---------+
| name     | salary | product |
+----------+--------+---------+
| sonali   |  12000 | chair   |
| rohan    |  24510 | chair   |
| jagdeesh |   1453 | chair   |
| poonam   |   1123 | chair   |
| sonali   |  12000 | table   |
| rohan    |  24510 | table   |
| jagdeesh |   1453 | table   |
| poonam   |   1123 | table   |
| sonali   |  12000 | pen     |
| rohan    |  24510 | pen     |
| jagdeesh |   1453 | pen     |
| poonam   |   1123 | pen     |
| sonali   |  12000 | books   |
| rohan    |  24510 | books   |
| jagdeesh |   1453 | books   |
| poonam   |   1123 | books   |
+----------+--------+---------+
16 rows in set (0.00 sec)
```

42. alias name

```
mysql> Select name as  customer_name from customers;
+---------------+
| customer_name |
+---------------+
| poonam        |
| jagdeesh      |
| rohan         |
| sonali        |
+---------------+
4 rows in set (0.00 sec)
```

43. concat

```
mysql> SELECT Name, CONCAT(address, " ",mobile, " " ) AS Address
    -> from address_book;
+----------------+---------------------------------+
| Name           | Address                         |
+----------------+---------------------------------+
| Jorge Stephen  | 123 Park Street 546-329-9876    |
| Peter          | 321 Fake Avenue  123-786-5678   |
| Michael Clark  | 321 Park Avenue  543-346-5988   |
| James Franklin | 321 Fake Avenue 890-798-5448    |
+----------------+---------------------------------+
4 rows in set (0.00 sec)
```

44 Trim

```
mysql> SELECT TRIM("    SQL Tutorial     ") AS TrimmedString;
+---------------+
| TrimmedString |
+---------------+
| SQL Tutorial  |
+---------------+
1 row in set (0.02 sec)
```

45. current timestamp

```
mysql> Select CURRENT_TIMESTAMP;
+---------------------+
| CURRENT_TIMESTAMP   |
+---------------------+
| 2021-12-23 15:00:06 |
+---------------------+
1 row in set (0.35 sec)
```

46.date add

```
mysql> SELECT DATE_ADD("2017-06-15", INTERVAL 1 year);
+-----------------------------------------+
| DATE_ADD("2017-06-15", INTERVAL 1 year) |
+-----------------------------------------+
| 2018-06-15                              |
+-----------------------------------------+
1 row in set (0.03 sec)
```

47. DATEDIFF

```
mysql> SELECT DATEDIFF("2017-06-25", "2021-06-15");
+--------------------------------------+
| DATEDIFF("2017-06-25", "2021-06-15") |
+--------------------------------------+
|                                -1451 |
+--------------------------------------+
1 row in set (0.00 sec)
```

48 date from part

```
mysql> SELECT DATE("2017,06,15");
+--------------------+
| DATE("2017,06,15") |
+--------------------+
| 2017-06-15         |
+--------------------+
1 row in set (0.00 sec)
```

49 day

```
mysql> SELECT DAY("2017-06-15");
+-------------------+
| DAY("2017-06-15") |
+-------------------+
|                15 |
+-------------------+
1 row in set (0.00 sec)
```

50 month

```
mysql> SELECT MONTH("2017-06-15");
+---------------------+
| MONTH("2017-06-15") |
+---------------------+
|                   6 |
+---------------------+
1 row in set (0.03 sec)
```

51. year

```
mysql> SELECT YEAR("2017-06-15");
+--------------------+
| YEAR("2017-06-15") |
+--------------------+
|               2017 |
+--------------------+
1 row in set (0.00 sec)
```

52 case statement

```
mysql> select id,name,age,
    -> case
    -> when age>20 then 'age is greater than 20'
    -> when age<24 then 'age is less than 25'
    -> end ages
    -> from customers;
+------+----------+------+----------------------------+
| id   | name     | age  | ages                       |
+------+----------+------+----------------------------+
|    1 | poonam   |   21 | age is greater than 20     |
|    2 | jagdeesh |   23 | age is greater than 20     |
|    3 | rohan    |   24 | age is greater than 20     |
|    4 | sonali   |   26 | age is greater than 20     |
+------+----------+------+----------------------------+
4 rows in set (0.00 sec)
```