Enter password: \*\*\*\*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 8

Server version: 8.0.30 MySQL Community Server - GPL

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

mysql> show databses;

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 'databses' at line 1

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| college |

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sys |

| world |

+--------------------+

7 rows in set (0.27 sec)

mysql> use college;

Database changed

mysql> use tables;

ERROR 1049 (42000): Unknown database 'tables'

mysql> show tables;

+-------------------+

| Tables\_in\_college |

+-------------------+

| emp |

+-------------------+

1 row in set (0.03 sec)

mysql> select \* from emp;

+-----+------------+--------------+--------+-------------+

| eno | ename | address | salary | job\_status |

+-----+------------+--------------+--------+-------------+

| 1 | abc | Pune | 50000 | Professor |

| 2 | abc | Pune | 45000 | Professor |

| 3 | P.Gupta | Mumbai | 40000 | Professor |

| 4 | Atharv | Chennai | 50000 | Teacher |

| 5 | Arpit | MLK | 50000 | HOD |

| 6 | sanket | kolhapur | 55000 | Teacher |

| 7 | sanket SSS | pune | 45000 | Lab manager |

| 8 | Joti | UP | 65000 | vice-HOD |

| 9 | Aarya | KP | 50000 | Teacher |

| 10 | Babalu | Nashik | 25000 | Research |

| 11 | Bhushan | Mumbai | 3000 | CR |

| 12 | xyz | jabalpur | 25000 | Research |

| 13 | john | J&K | 4000 | peon |

| 14 | joe | UP | 1000 | peon |

| 15 | Parth | RAvivar peth | 35000 | Lab-manager |

+-----+------------+--------------+--------+-------------+

15 rows in set (0.03 sec)

mysql> create view sample as select ename, address from emp where address='Pune';

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from sample;

+------------+---------+

| ename | address |

+------------+---------+

| abc | Pune |

| abc | Pune |

| sanket SSS | pune |

+------------+---------+

3 rows in set (0.00 sec)

mysql> create view example as select ename, job\_status from emp where job\_status='Professor';

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from example;

+---------+------------+

| ename | job\_status |

+---------+------------+

| abc | Professor |

| abc | Professor |

| P.Gupta | Professor |

+---------+------------+

3 rows in set (0.00 sec)

mysql> create or replace view sample as select ename, address from emp where address='Mumbai';

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from sample;

+---------+---------+

| ename | address |

+---------+---------+

| P.Gupta | Mumbai |

| Bhushan | Mumbai |

+---------+---------+

2 rows in set (0.00 sec)

mysql> create or replace view example as select ename, job\_status from emp where job\_status = 'Teacher';

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from example;

+--------+------------+

| ename | job\_status |

+--------+------------+

| Atharv | Teacher |

| sanket | Teacher |

| Aarya | Teacher |

+--------+------------+

3 rows in set (0.00 sec)

mysql> drop view sample;

Query OK, 0 rows affected (0.07 sec)

mysql> drop view example;

Query OK, 0 rows affected (0.03 sec)

mysql>

|  |
| --- |
| mysql>show databases; |
|  | +--------------------+ |
|  | | Database | |
|  | +--------------------+ |
|  | | ddl\_commands | |
|  | | dml\_commands | |
|  | | information\_schema | |
|  | | mysql | |
|  | | performance\_schema | |
|  | | sakila | |
|  | | sys | |
|  | | world | |
|  | +--------------------+ |
|  | 8 rows in set (0.00 sec) |
|  |  |
|  | mysql> use dml\_commands; |
|  | Database changed |
|  |  |
|  | -- Existing tables |
|  | mysql> show tables; |
|  | +------------------------+ |
|  | | Tables\_in\_dml\_commands | |
|  | +------------------------+ |
|  | | student\_info | |
|  | +------------------------+ |
|  | 1 row in set (0.00 sec) |
|  |  |
|  | -- Creating new tables |
|  |  |
|  | -- creating customer table |
|  | mysql> CREATE TABLE customer( |
|  | -> id INT PRIMARY KEY, |
|  | -> name VARCHAR(25) NOT NULL, |
|  | -> salary float NOT NULL |
|  | -> ); |
|  | Query OK, 0 rows affected (0.30 sec) |
|  |  |
|  | -- inserting values in Customer table |
|  | mysql> INSERT INTO customer VALUES (1,'Mohit',500000), |
|  | -> (2,'Ajay',250000), |
|  | -> (3,'Rutuja',350000), |
|  | -> (4,'Hemanshu',353240); |
|  | Query OK, 4 rows affected (0.02 sec) |
|  | Records: 4 Duplicates: 0 Warnings: 0 |
|  |  |
|  |  |
|  | mysql> SELECT \* FROM customer; |
|  | +----+----------+--------+ |
|  | | id | name | salary | |
|  | +----+----------+--------+ |
|  | | 1 | Mohit | 500000 | |
|  | | 2 | Ajay | 250000 | |
|  | | 3 | Rutuja | 350000 | |
|  | | 4 | Hemanshu | 353240 | |
|  | +----+----------+--------+ |
|  | 4 rows in set (0.00 sec) |
|  |  |
|  | -- creating orders table |
|  | mysql> CREATE TABLE orders( |
|  | -> order\_id INT PRIMARY KEY, |
|  | -> customer\_id INT REFERENCES customers, |
|  | -> amount INT NOT NULL |
|  | -> ); |
|  | Query OK, 0 rows affected (0.13 sec) |
|  |  |
|  | -- inserting values in orders table |
|  | mysql> INSERT INTO orders VALUES (1,2,200), |
|  | -> (2,2,1200), |
|  | -> (3,3,2300), |
|  | -> (4,4,2100), |
|  | -> (5,1,100); |
|  | Query OK, 5 rows affected (0.02 sec) |
|  | Records: 5 Duplicates: 0 Warnings: 0 |
|  |  |
|  | mysql> SELECT \* FROM orders; |
|  | +----------+-------------+--------+ |
|  | | order\_id | customer\_id | amount | |
|  | +----------+-------------+--------+ |
|  | | 1 | 2 | 200 | |
|  | | 2 | 2 | 1200 | |
|  | | 3 | 3 | 2300 | |
|  | | 4 | 4 | 2100 | |
|  | | 5 | 1 | 100 | |
|  | +----------+-------------+--------+ |
|  | 5 rows in set (0.00 sec) |
|  |  |
|  | -- JOIN OPERATIONS |
|  |  |
|  | -- INNER JOIN |
|  | mysql> SELECT name,salary,amount FROM customer INNER JOIN orders ON customer.id = orders.customer\_id; |
|  | +----------+--------+--------+ |
|  | | name | salary | amount | |
|  | +----------+--------+--------+ |
|  | | Ajay | 250000 | 200 | |
|  | | Ajay | 250000 | 1200 | |
|  | | Rutuja | 350000 | 2300 | |
|  | | Hemanshu | 353240 | 2100 | |
|  | | Mohit | 500000 | 100 | |
|  | +----------+--------+--------+ |
|  | 5 rows in set (0.00 sec) |
|  |  |
|  | -- LEFT JOIN |
|  | mysql> SELECT name,salary,amount FROM customer LEFT JOIN orders ON customer.id = orders.customer\_id; |
|  | +----------+--------+--------+ |
|  | | name | salary | amount | |
|  | +----------+--------+--------+ |
|  | | Mohit | 500000 | 100 | |
|  | | Ajay | 250000 | 200 | |
|  | | Ajay | 250000 | 1200 | |
|  | | Rutuja | 350000 | 2300 | |
|  | | Hemanshu | 353240 | 2100 | |
|  | +----------+--------+--------+ |
|  | 5 rows in set (0.00 sec) |
|  |  |
|  | -- RIGHT JOIN |
|  | mysql> SELECT name,salary,amount FROM customer RIGHT JOIN orders ON customer.id = orders.customer\_id; |
|  | +----------+--------+--------+ |
|  | | name | salary | amount | |
|  | +----------+--------+--------+ |
|  | | Ajay | 250000 | 200 | |
|  | | Ajay | 250000 | 1200 | |
|  | | Rutuja | 350000 | 2300 | |
|  | | Hemanshu | 353240 | 2100 | |
|  | | Mohit | 500000 | 100 | |
|  | +----------+--------+--------+ |
|  | 5 rows in set (0.00 sec) |
|  |  |
|  | -- FULL JOIN |
|  | mysql> SELECT name,salary,amount FROM customer FULL JOIN orders ON id = orders.customer\_id; |
|  | +----------+--------+--------+ |
|  | | name | salary | amount | |
|  | +----------+--------+--------+ |
|  | | Ajay | 250000 | 200 | |
|  | | Ajay | 250000 | 1200 | |
|  | | Rutuja | 350000 | 2300 | |
|  | | Hemanshu | 353240 | 2100 | |
|  | | Mohit | 500000 | 100 | |
|  | +----------+--------+--------+ |
|  | 5 rows in set (0.00 sec) |
|  |  |
|  | -- SELF JOIN |
|  | mysql> SELECT a.id,b.name,a.salary FROM customer a, customer b WHERE a.salary > b.salary; |
|  | +----+----------+--------+ |
|  | | id | name | salary | |
|  | +----+----------+--------+ |
|  | | 1 | Ajay | 500000 | |
|  | | 3 | Ajay | 350000 | |
|  | | 4 | Ajay | 353240 | |
|  | | 1 | Rutuja | 500000 | |
|  | | 4 | Rutuja | 353240 | |
|  | | 1 | Hemanshu | 500000 | |
|  | +----+----------+--------+ |
|  | 6 rows in set (0.00 sec) |
|  |  |
|  | -- CARTESIAN OR CROSS JOIN |
|  | mysql> SELECT id,name,amount FROM customer,orders; |
|  | +----+----------+--------+ |
|  | | id | name | amount | |
|  | +----+----------+--------+ |
|  | | 1 | Mohit | 200 | |
|  | | 2 | Ajay | 200 | |
|  | | 3 | Rutuja | 200 | |
|  | | 4 | Hemanshu | 200 | |
|  | | 1 | Mohit | 1200 | |
|  | | 2 | Ajay | 1200 | |
|  | | 3 | Rutuja | 1200 | |
|  | | 4 | Hemanshu | 1200 | |
|  | | 1 | Mohit | 2300 | |
|  | | 2 | Ajay | 2300 | |
|  | | 3 | Rutuja | 2300 | |
|  | | 4 | Hemanshu | 2300 | |
|  | | 1 | Mohit | 2100 | |
|  | | 2 | Ajay | 2100 | |
|  | | 3 | Rutuja | 2100 | |
|  | | 4 | Hemanshu | 2100 | |
|  | | 1 | Mohit | 100 | |
|  | | 2 | Ajay | 100 | |
|  | | 3 | Rutuja | 100 | |
|  | | 4 | Hemanshu | 100 | |
|  | +----+----------+--------+ |
|  | 20 rows in set (0.00 sec) |
|  |  |
|  |  |
|  | -- SUB QUERY OPERATION |
|  |  |
|  | -- SELECT |
|  | mysql> SELECT name FROM customer WHERE id IN (SELECT customer\_id FROM orders); |
|  | +----------+ |
|  | | name | |
|  | +----------+ |
|  | | Mohit | |
|  | | Ajay | |
|  | | Rutuja | |
|  | | Hemanshu | |
|  | +----------+ |
|  | 4 rows in set (0.00 sec) |
|  |  |
|  | -- UPDATE |
|  | mysql> UPDATE customer SET salary=salary+1000 WHERE id IN (SELECT customer\_id FROM orders); |
|  | Query OK, 4 rows affected (0.02 sec) |
|  | Rows matched: 4 Changed: 4 Warnings: 0 |
|  |  |
|  | mysql> SELECT \* FROM customer; |
|  | +----+----------+--------+ |
|  | | id | name | salary | |
|  | +----+----------+--------+ |
|  | | 1 | Mohit | 501000 | |
|  | | 2 | Ajay | 251000 | |
|  | | 3 | Rutuja | 351000 | |
|  | | 4 | Hemanshu | 354240 | |
|  | +----+----------+--------+ |
|  | 4 rows in set (0.00 sec) |