mysql> CREATE DATABASE dat\_b;

Query OK, 1 row affected (1.28 sec)

mysql> use dat\_b;

Database changed

mysql> create table EMPLOYEE(emp\_id int(10),ename varchar(20),addr varchar(50),job\_stat varchar(50),basic\_sal int(20),constraint EMPLOYEE\_pk primary key(emp\_id));

Query OK, 0 rows affected, 2 warnings (1.53 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0001, 'Clark','pune', 'professor',50000);

Query OK, 1 row affected (0.99 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0002, 'Dave','mumbai','Clerk ',2500);

Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0003, 'Ava', 'nashik','professor',75000);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0004, 'Eva', 'pune','research mgr',45000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0005, 'Avan', 'pune','research an',60000);

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0006, 'Evan', 'mumbai','professor',70000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0007, 'Aiden', 'nashik','research worker',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0008, 'P.Gupta','pune', 'professor',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0009, 'Ethan','mumbai','Clerk ',2500);

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0010, 'stefan', 'nashik','professor',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0011, 'parth', 'pune','research mg',20000);

Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0012, 'Adhvik', 'pune','research an',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0013, 'Omkar', 'mumbai','professor',20000);

Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0014, 'Ankur', 'nashik','research worker',40000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0015, 'Swetha','pune', 'professor',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0016, 'Shruti','mumbai','Clerk ',2500);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0017, 'Raj', 'nashik','professor',20000);

Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0018, 'kshitij', 'pune','research mg',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0019, 'HArry', 'pune','research an',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0020, 'Krishna', 'mumbai','professor',20000);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO EMPLOYEE VALUES (0021, 'Elaine', 'nashik','research worker',20000);

Query OK, 1 row affected (0.04 sec)

mysql> SELECT \* FROM EMPLOYEE;

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

| emp\_id | ename | addr | job\_stat | basic\_sal |

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

| 1 | Clark | pune | professor | 50000 |

| 2 | Dave | mumbai | Clerk | 2500 |

| 3 | Ava | nashik | professor | 75000 |

| 4 | Eva | pune | research mgr | 45000 |

| 5 | Avan | pune | research an | 60000 |

| 6 | Evan | mumbai | professor | 70000 |

| 7 | Aiden | nashik | research worker | 20000 |

| 8 | P.Gupta | pune | professor | 20000 |

| 9 | Ethan | mumbai | Clerk | 2500 |

| 10 | stefan | nashik | professor | 20000 |

| 11 | parth | pune | research mg | 20000 |

| 12 | Adhvik | pune | research an | 20000 |

| 13 | Omkar | mumbai | professor | 20000 |

| 14 | Ankur | nashik | research worker | 40000 |

| 15 | Swetha | pune | professor | 20000 |

| 16 | Shruti | mumbai | Clerk | 2500 |

| 17 | Raj | nashik | professor | 20000 |

| 18 | kshitij | pune | research mg | 20000 |

| 19 | HArry | pune | research an | 20000 |

| 20 | Krishna | mumbai | professor | 20000 |

| 21 | Elaine | nashik | research worker | 20000 |

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

21 rows in set (0.00 sec)

mysql> SELECT emp\_id,basic\_sal FROM EMPLOYEE WHERE basic\_sal>4000;

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

| emp\_id | basic\_sal |

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

| 1 | 50000 |

| 3 | 75000 |

| 4 | 45000 |

| 5 | 60000 |

| 6 | 70000 |

| 7 | 20000 |

| 8 | 20000 |

| 10 | 20000 |

| 11 | 20000 |

| 12 | 20000 |

| 13 | 20000 |

| 14 | 40000 |

| 15 | 20000 |

| 17 | 20000 |

| 18 | 20000 |

| 19 | 20000 |

| 20 | 20000 |

| 21 | 20000 |

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

18 rows in set (0.00 sec)

mysql> SELECT basic\_sal,job\_stat FROM EMPLOYEE WHERE basic\_sal>40000 AND job\_stat='professor';

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

| basic\_sal | job\_stat |

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

| 50000 | professor |

| 75000 | professor |

| 70000 | professor |

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

3 rows in set (0.00 sec)

mysql> SELECT emp\_id, ename FROM EMPLOYEE ORDER BY emp\_id desc;

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

| emp\_id | ename |

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

| 21 | Elaine |

| 20 | Krishna |

| 19 | HArry |

| 18 | kshitij |

| 17 | Raj |

| 16 | Shruti |

| 15 | Swetha |

| 14 | Ankur |

| 13 | Omkar |

| 12 | Adhvik |

| 11 | parth |

| 10 | stefan |

| 9 | Ethan |

| 8 | P.Gupta |

| 7 | Aiden |

| 6 | Evan |

| 5 | Avan |

| 4 | Eva |

| 3 | Ava |

| 2 | Dave |

| 1 | Clark |

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

21 rows in set (0.00 sec)

mysql> SELECT emp\_id,ename FROM EMPLOYEE WHERE job\_stat LIKE 'research%';

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

| emp\_id | ename |

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

| 4 | Eva |

| 5 | Avan |

| 7 | Aiden |

| 11 | parth |

| 12 | Adhvik |

| 14 | Ankur |

| 18 | kshitij |

| 19 | HArry |

| 21 | Elaine |

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

9 rows in set (0.00 sec)

mysql> SELECT emp\_id,ename FROM EMPLOYEE WHERE MOD(emp\_id,2)=1;

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

| emp\_id | ename |

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

| 1 | Clark |

| 3 | Ava |

| 5 | Avan |

| 7 | Aiden |

| 9 | Ethan |

| 11 | parth |

| 13 | Omkar |

| 15 | Swetha |

| 17 | Raj |

| 19 | HArry |

| 21 | Elaine |

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

11 rows in set (0.15 sec)

mysql> SELECT SUM(basic\_sal) FROM EMPLOYEE;

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

| SUM(basic\_sal) |

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

| 587500 |

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

1 row in set (0.10 sec)

mysql> SELECT SUM(basic\_sal) FROM EMPLOYEE WHERE job\_stat='off\_assi';

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

| SUM(basic\_sal) |

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

| NULL |

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

1 row in set (0.00 sec)

mysql> SELECT count(ename),job\_stat FROM EMPLOYEE group BY job\_stat;

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

| count(ename) | job\_stat |

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

| 9 | professor |

| 2 | Clerk |

| 1 | research mgr |

| 3 | research an |

| 3 | research worker |

| 2 | research mg |

| 1 | Clerk |

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

7 rows in set (0.21 sec)

mysql> SELECT AVG(basic\_sal),job\_stat FROM EMPLOYEE WHERE job\_stat='professor' AND job\_stat LIKE 'research%';

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

| AVG(basic\_sal) | job\_stat |

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

| NULL | NULL |

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

1 row in set (0.00 sec)

mysql> SELECT AVG(basic\_sal),job\_stat FROM EMPLOYEE WHERE job\_stat='professor';

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

| AVG(basic\_sal) | job\_stat |

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

| 35000.0000 | professor |

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

1 row in set (0.00 sec)

mysql> SELECT AVG(basic\_sal),job\_stat FROM EMPLOYEE WHERE job\_stat like 'research%';

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

| AVG(basic\_sal) | job\_stat |

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

| 29444.4444 | research mgr |

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

1 row in set (0.00 sec)

mysql> SELECT ename,job\_stat FROM EMPLOYEE WHERE job\_stat IN (SELECT job\_stat FROM EMPLOYEE WHERE ename='P.Gupta');

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

| ename | job\_stat |

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

| Clark | professor |

| Ava | professor |

| Evan | professor |

| P.Gupta | professor |

| stefan | professor |

| Omkar | professor |

| Swetha | professor |

| Raj | professor |

| Krishna | professor |

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

9 rows in set (0.12 sec)