```
MvSQL 8.0 Command Line Client
mysql> select*from worker;
   WORKER_ID | FIRST_NAME | LAST_NAME |
                                                                  SALARY | JOINING DATE
                                                                                                                      DEPARTMENT
                                                                                2021-02-20 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-06-10 00:00:00
2021-04-11 00:00:00
   001
002
003
                        Monika
Niharika
                                                                  100000
                                              Arora
                                                                   80000
300000
                                                                                                                       Manager
                                              Verma
                                             Singhal
Singh
Bhati
                                                                                                                       Manager
Admin
HR
                        Vishal
                       Amitabh
Vivek
Vipul
Satish
                                                                  500000
500000
200000
   004
   005
006
                                                                                                                       Developer
                                              Diwan
                                                                   75000
90000
                                                                                                                      Intern
Tester
   007
                                              Kumar
                                              Chauhan
8 rows in set (0.00 sec)
mysql> /*Q.1. Write an sql query to fetch "FIRST_NAME" from the Worker table using the alias name <WORKER_NAME>*/mysql> select FIRST_NAME as WORKER_NAME from worker;
   WORKER_NAME
   Monika
Niharika
Vishal
Amitabh
Vivek
   Vipul
Satish
Geetika
8 rows in set (0.00 sec)
<code>mysql> /*Q.2.</code> Write an SQL query to fetch "FIRST_NAME" from the Worker table in Upper case.*/ <code>mysql> select Upper(FIRST_NAME)</code> from worker;
   Upper(FIRST_NAME)
   MONIKA
NIHARIKA
VISHAL
AMITABH
VIVEK
VIPUL
    SATISH
   GEETIKA
8 rows in set (0.00 sec)
mysql> /*Q.3. Write an SQL query to print all Worker details from Worker table order by FIRST_NAME Ascending and DEPARTMENT De scending.*/
mysql> select*from worker order by FIRST_NAME;
   WORKER_ID | FIRST_NAME | LAST_NAME |
                                                                  SALARY | JOINING_DATE
                                                                                                                      DEPARTMENT
                                                                                2021-02-20 00:00:00
2021-04-11 00:00:00
2021-02-20 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
   004
                                                                  500000
                        Amitabh
                                              Singh
Chauhan
                                                                                                                       Admin
                       Amitabh
Geetika
Monika
Niharika
Satish
Vipul
Vishal
Vivek
                                                                  90000
100000
80000
75000
200000
300000
                                                                                                                      Admin
Tester
Admin
Manager
Intern
Developer
Manager
HR
    008
                                             Chauhan
Arora
Verma
Kumar
Diwan
Singhal
Bhati
   008
001
002
007
006
003
005
8 rows in set (0.00 sec)
mysql> select*from worker order by DEPARTMENT desc;
   WORKER ID | FIRST NAME | LAST NAME |
                                                                  SALARY | JOINING DATE
                                                                                                                      DEPARTMENT
                                                                                2021-04-11 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-01-20 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
                       Geetika
Niharika
Vishal
Satish
Vivek
Vipul
Monika
Amitahh
   008
                                              Chauhan
                                                                    90000
                                             Verma
Singhal
Kumar
Bhati
Diwan
                                                                  80000
80000
300000
75000
500000
100000
500000
                                                                                                                       Manager
Manager
Intern
    002
   002
003
007
005
006
001
004
                                                                                                                       HR
Developer
Admin
Admin
                                              Arora
Singh
                        Amitabh
8 rows in set (0.00 sec)
WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                                      DEPARTMENT
                                                                  200000
75000
                                                                                 2021-06-11 00:00:00 |
2021-01-20 00:00:00 |
                                              Diwan
                                                                                                                      Developer
Intern
2 rows in set (0.00 sec)
myṣql> /*Q.5. Write an SQL query to print details of workers excluding first names, "Vipul" and "Satish" from the Worker table
mysql> select*from worker where FIRST_NAME not in("Vipul","Satish");
   WORKER_ID | FIRST_NAME | LAST_NAME |
                                                                  SALARY | JOINING_DATE
                                                                                                                       DEPARTMENT
                                                                                 2021-02-20 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
2021-06-11 00:00:00
2021-04-11 00:00:00
                                                                  100000
80000
300000
500000
   001
002
003
004
                        Monika
Niharika
Vishal
                                              Arora
                                             Verma
Singhal
Singh
Bhati
                                                                                                                       Manager
Manager
                        Amitabh
Vivek
                                                                                                                       Admin
   005
                                                                  500000
                        Geetika
6 rows in set (0.00 sec)
```

```
mysql> /*Q.6. Write an SQL query to print details of workers with DEPARTMENT name as "Admin".*/mysql> select*from worker where DEPARTMENT="Admin";
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                       2021-02-20 00:00:00 |
2021-02-20 00:00:00 |
                    Monika
Amitabh
                                                          100000
                                        Arora
Singh
                                                                                                       Admin
                                                          500000
2 rows in set (0.00 sec)
mysql> /*Q.7. Write an SQL query to print details of the Workers whose FIRST_NAME contains 'a'.*/ mysql> select*from worker where FIRST_NAME like '%a%';
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                        DEPARTMENT
                                                                      2021-02-20 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
2021-01-20 00:00:00
2021-04-11 00:00:00
   001
002
003
004
                    Monika
Niharika
Vishal
                                                          100000
                                        Arora
                                                         80000
300000
500000
75000
90000
                                        Verma
Singhal
Singh
Kumar
                                                                                                        Manager
                                                                                                        Manager
Admin
                     Amitabh
                                                                                                        Intern
Tester
   007
                     Satish
   008
                                        Chauhan
6 rows in set (0.00 sec)
\label{eq:mysql} $$ mysql> /*0.8. Write an SQL query to print details of the Workers whose FIRST_NAME ends with 'a'.*/ $$ mysql> select*from worker where FIRST_NAME like '%a';
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                     DEPARTMENT
                                                                       2021-02-20 00:00:00 |
2021-06-11 00:00:00 |
2021-04-11 00:00:00 |
   001
002
008
                    Monika
Niharika
Geetika
                                        Arora
Verma
Chauhan
                                                         100000
                                                                                                        Admin
                                                           80000
90000
                                                                                                       Manager
Tester
3 rows in set (0.00 sec)
mysql> /*Q.9. Write an SQL query to print details of the Workers whose FIRST_NAME ends with 'h' and contains six alhabets.*/
mysql> select*from worker where FIRST_NAME like '____h';
  WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                     I DEPARTMENT I
                                                       75000 | 2021-01-20 00:00:00 | Intern
        Satish
                                      Kumar
1 row in set (0.00 sec)
WORKER_ID | FIRST_NAME | LAST_NAME |
                                                         SALARY | JOINING DATE
                                                                                                       DEPARTMENT
                                                                     2021-02-20 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
                   Monika
Vishal
Amitabh
Vivek
Vipul
                                       Arora
Singhal
Singh
Bhati
Diwan
                                                         100000
300000
500000
500000
200000
   001
003
004
005
006
                                                                                                        Admin
                                                                                                       Manager
Admin
                                                                                                       HR
Developer
5 rows in set (0.00 sec)
mysql> /*Write an SQL query to fetch the count of employees working in the department 'Admin'.*/mysql> select COUNT(DEPARTMENT) from worker where DEPARTMENT="Admin";
   COUNT (DEPARTMENT)
        1 row in set (0.00 sec)
mysql> /*Write an SQL query to fetch worker names with salaries >=50000 and <=100000.*/mysql> select*from worker where SALARY>=50000 and SALARY<=100000;
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                       DEPARTMENT
                                                                      2021-02-20 00:00:00
2021-06-11 00:00:00
2021-01-20 00:00:00
2021-04-11 00:00:00
   001
002
007
                    Monika
Niharika
Satish
Geetika
                                                          100000
                                        Arora
Verma
Kumar
Chauhan
                                                                                                        Admin
                                                           80000
75000
90000
                                                                                                       Manager
Intern
Tester
4 rows in set (0.00 sec)
mysql> /*Q.13. Write an SQL query to fetch the number of workers for each department in descending order.*/
mysql> select DEPARTMENT, count(WORKER_ID) NumberOfWorkers from worker group by DEPARTMENT order by NumberOfWorkers desc;
   DEPARTMENT | NumberOfWorkers
   Admin
Manager
HR
   Developer
   Tester
6 rows in set (0.00 sec)
mysql> /*Q.14. Write an SQL query to print details of the workers who are also Managers.*/mysql> select*from worker where DEPARTMENT="Manager";
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                       DEPARTMENT
                                                          80000 | 2021-06-11 00:00:00 |
300000 | 2021-02-20 00:00:00 |
                    Niharika
Vishal
                                        Verma
Singhal
                                                                                                       Manager
Manager
```

2 rows in set (0.00 sec)

```
mysql> /*Q.15. Write an SQL query to print details of workers excluding first names, "Vipul" and "Satish" from the Worker tabl ^
es.*/
mysql> select*from worker where FIRST_NAME not in("Vipul","Satish");
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                        DEPARTMENT
                                                                       2021-02-20 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
                                                          100000
                     Monika
Niharika
                                        Arora
                                        Arora
Verma
Singhal
Singh
Bhati
Chauhan
                                                         80000
300000
500000
500000
90000
                                                                                                        Manager
   003
004
                     Vishal
                                                                                                        Manager
Admin
                    Amitabh
Vivek
Geetika
   005
6 rows in set (0.00 sec)
mysal> /*0.16. Write an SOL guery to print details of the Workers whose FIRST_NAME ends with 'h' and contains six alphabets.*/
mysql> select*from worker where FIRST_NAME like '___
                                                                              _h';
                                                                                                     DEPARTMENT
  WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                  Satish
                                                       | 75000 | 2021-01-20 00:00:00 | Intern
1 row in set (0.00 sec)
<code>mysql> /*0.17.</code> Write an SQL query to show the top n(say 10) records of a table.*/ <code>mysql> select*from worker limit 10;</code>
  WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                        DEPARTMENT
                                                                      2021-02-20 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-01-20 00:00:00
2021-04-11 00:00:00
                    Monika
Niharika
Vishal
Amitabh
Vivek
Vipul
Satish
                                        Arora
Verma
Singhal
Singh
Bhati
   001
002
003
004
005
006
007
008
                                                          100000
                                                         100000
80000
300000
500000
200000
                                                                                                        Manager
Manager
Admin
HR
                                                                                                        Developer
                                        Diwan
                                        Kumar
Chauhan
                                                           75000
90000
                                                                                                        Intern
Tester
                    Geetika
8 rows in set (0.00 sec)
<code>mysql> /*Q.18</code>. Write an SQL query to deteremine the n=1,2,3,4.*/ <code>mysql> select*from worker limit 4;</code>
   WORKER_ID | FIRST_NAME | LAST_NAME
                                                                                                        DEPARTMENT
                                                                    2021-02-20 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
2021-02-20 00:00:00
                    Monika
Niharika
   001
                                        Arora
                                                          100000
                                                                                                        Admin
   002
003
004
                                                          80000
300000
500000
                                        Verma
Singhal
                                                                                                        Manager
                     Vishal
                                                                                                        Manager
Admin
                    Amitabh
                                        Singh
4 rows in set (0.00 sec)
mysql> /*Q.19. Write an SQL query to determine nth (say n=5) highest salary from a table.*/mysql> select*from worker order by SALARY desc limit 4,1;
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                 | Monika
                                                       | 100000 | 2021-02-20 00:00:00 | Admin
                                    Arora
1 row in set (0.00 sec)
mysql> /*Q.20. Write an SQL query to fetch the departments that have less than five people in them.*/
mysql> select DEPARTMENT, count(WORKER_ID) NumberOfWorkers from worker group by DEPARTMENT having NumberOfWorkers<5;
   DEPARTMENT | NumberOfWorkers
   Admin
   Manager
   HR
Developer
   Intern
6 rows in set (0.00 sec)
<code>mysql> /*Q.21.</code> Write an SQL query to show the last record from a table.*/ <code>mysql> select*from worker order by WORKER_ID desc limit 1;</code>
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
008 | Geetika
                                     | Chauhan | 90000 | 2021-04-11 00:00:00 | Tester
1 row in set (0.00 sec)
mysql> /*Q.22. Write an SQL query to fetch the first row of a table.*/
mysql> select * from worker limit 1;
  WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT
  001 | Monika | Arora
                                                       | 100000 | 2021-02-20 00:00:00 | Admin
1 row in set (0.00 sec)
<code>mysql> /*Q.23.</code> Write an SQL query to fetch the last five records from a table.*/ <code>mysql> select*from worker order by WORKER_ID desc limit 5;</code>
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                        DEPARTMENT
                                                                      2021-04-11 00:00:00
2021-01-20 00:00:00
2021-06-11 00:00:00
2021-06-11 00:00:00
2021-02-20 00:00:00
                                                         90000
75000
200000
500000
500000
   008
007
006
005
004
                    Geetika
Satish
Vipul
Vivek
                                        Chauhan
                                                                                                        Tester
                                        Kumar
Diwan
                                                                                                        Intern
                                                                                                        Developer
HR
                                        Bhati
                    Amitabh
                                        Singh
                                                                                                        Admin
5 rows in set (0.00 sec)
<code>mysql> /*Q.24.</code> Write an SQL query to fetch three max salaries from a table.*/ <code>mysql> select*from worker order by SALARY desc limit 3;</code>
   WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE
                                                                                                        DEPARTMENT
                                                                    2021-02-20 00:00:00 |
2021-06-11 00:00:00 |
2021-02-20 00:00:00 |
                                                          500000
                                        Singh
Bhati
   004
                     Amitabh
                                                                                                        Admin
                    Vishal
```

Manager

003

3 rows in set (0.00 sec)

300000