Name: Pranav Gadakh.

```
mysql> select*from worker;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 006       | Vipul      | Diwan     | 200000 | 2021-06-11 00:00:00 | Developer  |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
+-----------+------------+-----------+--------+---------------------+------------+
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)

mysql> /*Q.2. Write an SQL query to fetch "FIRST_NAME" from the Worker table in Upper case.*/
mysql> select Upper(FIRST_NAME) 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 Descending.*/
mysql> select*from worker order by FIRST_NAME;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
| 006       | Vipul      | Diwan     | 200000 | 2021-06-11 00:00:00 | Developer  |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
+-----------+------------+-----------+--------+---------------------+------------+
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 |
+-----------+------------+-----------+--------+---------------------+------------+
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 006       | Vipul      | Diwan     | 200000 | 2021-06-11 00:00:00 | Developer  |
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
+-----------+------------+-----------+--------+---------------------+------------+
8 rows in set (0.00 sec)

mysql> /*Q.4. Write an SQL query to print details for Workers with first names "Vipul" and "Satish" from Worker table.*/
mysql> select*from worker where FIRST_NAME in("Vipul","Satish");
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 006       | Vipul      | Diwan     | 200000 | 2021-06-11 00:00:00 | Developer  |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
+-----------+------------+-----------+--------+---------------------+------------+
2 rows in set (0.00 sec)

mysql> /*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 |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
+-----------+------------+-----------+--------+---------------------+------------+
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        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
+-----------+------------+-----------+--------+---------------------+------------+
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 |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
+-----------+------------+-----------+--------+---------------------+------------+
6 rows in set (0.00 sec)

mysql> /*Q.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 |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | 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        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
+-----------+------------+-----------+--------+---------------------+------------+
1 row in set (0.00 sec)

mysql> /*Q.10. Write an SQL query to print details of the Workers whose SALARY lies between 100000 and 500000.*/
mysql> select*from worker where SALARY between 100000 and 500000;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 006       | Vipul      | Diwan     | 200000 | 2021-06-11 00:00:00 | 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) |
+-------------------+
|                 2 |
+-------------------+
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 |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | 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      |               2 |
| Manager    |               2 |
| HR         |               1 |
| Developer  |               1 |
| Intern     |               1 |
| Tester     |               1 |
+------------+-----------------+
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 |
+-----------+------------+-----------+--------+---------------------+------------+
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | 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 |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
+-----------+------------+-----------+--------+---------------------+------------+
6 rows in set (0.00 sec)

mysql> /*Q.16. Write an SQL query 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';
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
+-----------+------------+-----------+--------+---------------------+------------+
1 row in set (0.00 sec)

mysql> /*Q.17. Write an SQL query to show the top n(say 10) records of a table.*/
mysql> select*from worker limit 10;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 006       | Vipul      | Diwan     | 200000 | 2021-06-11 00:00:00 | Developer  |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
+-----------+------------+-----------+--------+---------------------+------------+
8 rows in set (0.00 sec)

mysql> /*Q.18. Write an SQL query to deteremine the n=1,2,3,4.*/
mysql> select*from worker limit 4;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
| 002       | Niharika   | Verma     |  80000 | 2021-06-11 00:00:00 | Manager    |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
+-----------+------------+-----------+--------+---------------------+------------+
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        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 001       | Monika     | Arora     | 100000 | 2021-02-20 00:00:00 | Admin      |
+-----------+------------+-----------+--------+---------------------+------------+
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      |               2 |
| Manager    |               2 |
| HR         |               1 |
| Developer  |               1 |
| Intern     |               1 |
| Tester     |               1 |
+------------+-----------------+
6 rows in set (0.00 sec)

mysql> /*Q.21. Write an SQL query to show the last record from a table.*/
mysql> select*from worker order by WORKER_ID desc limit 1;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 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)

mysql> /*Q.23. Write an SQL query to fetch the last five records from a table.*/
mysql> select*from worker order by WORKER_ID desc limit 5;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 008       | Geetika    | Chauhan   |  90000 | 2021-04-11 00:00:00 | Tester     |
| 007       | Satish     | Kumar     |  75000 | 2021-01-20 00:00:00 | Intern     |
| 006       | Vipul      | Diwan     | 200000 | 2021-06-11 00:00:00 | Developer  |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
+-----------+------------+-----------+--------+---------------------+------------+
5 rows in set (0.00 sec)

mysql> /*Q.24. Write an SQL query to fetch three max salaries from a table.*/
mysql> select*from worker order by SALARY desc limit 3;
+-----------+------------+-----------+--------+---------------------+------------+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE        | DEPARTMENT |
+-----------+------------+-----------+--------+---------------------+------------+
| 004       | Amitabh    | Singh     | 500000 | 2021-02-20 00:00:00 | Admin      |
| 005       | Vivek      | Bhati     | 500000 | 2021-06-11 00:00:00 | HR         |
| 003       | Vishal     | Singhal   | 300000 | 2021-02-20 00:00:00 | Manager    |
+-----------+------------+-----------+--------+---------------------+------------+
3 rows in set (0.00 sec)
```