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COLLEGE	VIT CHENNAI
REGISTRATION NO	22BLC1221

USING LINUX TERMINAL HERE HENCE THE PICTURES LOOK DIFFERENT FROM WORKBENCH

1.

```
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)
```

2.

```
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)
```

3.

```
mysql> SELECT DISTINCT DEPARTMENT FROM Worker;
+-----+
| DEPARTMENT |
+-----+
| HR          |
| Admin       |
| Account    |
+-----+
3 rows in set (0.01 sec)
```

4.

```
mysql> SELECT LEFT(first_name, 3) AS first_three_chars FROM Worker;
+-----+
| first_three_chars |
+-----+
| Mon              |
| Nih              |
| Vis              |
| Ami              |
| Viv              |
| Vip              |
| Sat              |
| Gee              |
+-----+
8 rows in set (0.00 sec)
```

5.

```
mysql> SELECT INSTR(first_name, 'a') AS position_of_a FROM Worker WHERE
  FIRST_NAME = 'Amitabh';
+-----+
| position_of_a |
+-----+
|            1 |
+-----+
1 row in set (0.00 sec)
```

6.

```
mysql> SELECT RTRIM(FIRST_NAME) AS TRIM FROM Worker;
+-----+
| TRIM |
+-----+
| Monika      |
| Niharika    |
| Vishal      |
| Amitabh     |
| Vivek       |
| Vipul        |
| Satish      |
| Geetika     |
+-----+
8 rows in set (0.01 sec)
```

7.

```
mysql> SELECT LTRIM(DEPARTMENT) AS TRIM FROM Worker;
+-----+
| TRIM |
+-----+
| HR   |
| Admin |
| HR   |
| Admin |
| Admin |
| Account |
| Account |
| Admin |
+-----+
8 rows in set (0.00 sec)
```

8.

```
mysql> SELECT DISTINCT DEPARTMENT, LENGTH(DEPARTMENT) AS DEPT_LENGTH FROM Worker;
+-----+-----+
| DEPARTMENT | DEPT_LENGTH |
+-----+-----+
| HR          |        2 |
| Admin       |        5 |
| Account    |        7 |
+-----+-----+
3 rows in set (0.00 sec)
```

9.

```
mysql> SELECT REPLACE(FIRST_NAME, 'a', 'A') AS FIRST_NAME FROM Worker;
+-----+
| FIRST_NAME |
+-----+
| MonikA     |
| NihArikA   |
| VishAl     |
| AmitAbh   |
| Vivek      |
| Vipul      |
| SATish     |
| GeetikA    |
+-----+
8 rows in set (0.00 sec)
```

10.

```
mysql> SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS COMPLETE_NAME FROM Worker;
+-----+
| COMPLETE_NAME |
+-----+
| Monika Arora |
| Niharika Verma |
| Vishal Singhal |
| Amitabh Singh |
| Vivek Bhati |
| Vipul Diwan |
| Satish Kumar |
| Geetika Chauhan |
+-----+
8 rows in set (0.00 sec)
```

11.

```
mysql> SELECT * FROM Worker ORDER BY FIRST_NAME ASC;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|       4 | Amitabh   | Singh     | 500000 | 2014-02-20 09:00:00 | Admin      |
|       8 | Geetika    | Chauhan   | 90000  | 2014-04-11 09:00:00 | Admin      |
|       1 | Monika     | Arora     | 100000 | 2014-02-20 09:00:00 | HR         |
|       2 | Niharika   | Verma     | 80000  | 2014-06-11 09:00:00 | Admin      |
|       7 | Satish     | Kumar     | 75000  | 2014-01-20 09:00:00 | Account    |
|       6 | Vipul      | Diwan     | 200000 | 2014-06-11 09:00:00 | Account    |
|       3 | Vishal     | Singhal   | 300000 | 2014-02-20 09:00:00 | HR         |
|       5 | Vivek      | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin      |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

12.

```
mysql> SELECT * FROM Worker ORDER BY FIRST_NAME ASC,DEPARTMENT DESC;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|       4 | Amitabh   | Singh     | 500000 | 2014-02-20 09:00:00 | Admin      |
|       8 | Geetika    | Chauhan   | 90000  | 2014-04-11 09:00:00 | Admin      |
|       1 | Monika     | Arora     | 100000 | 2014-02-20 09:00:00 | HR         |
|       2 | Niharika   | Verma     | 80000  | 2014-06-11 09:00:00 | Admin      |
|       7 | Satish     | Kumar     | 75000  | 2014-01-20 09:00:00 | Account    |
|       6 | Vipul      | Diwan     | 200000 | 2014-06-11 09:00:00 | Account    |
|       3 | Vishal     | Singhal   | 300000 | 2014-02-20 09:00:00 | HR         |
|       5 | Vivek      | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin      |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

13.

```
'> ^C
mysql> SELECT * FROM Worker WHERE FIRST_NAME IN ('Vipul','Satish') ;
+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+
|       6 | Vipul      | Diwan     | 200000 | 2014-06-11 09:00:00 | Account    |
|       7 | Satish     | Kumar     | 75000  | 2014-01-20 09:00:00 | Account    |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

14.

```
mysql> SELECT * FROM Worker WHERE FIRST_NAME NOT IN ('Vipul','Satish') ;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin
| 5 | Vivek | Bhati | 500000 | 2014-06-11 09:00:00 | Admin
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

15.

```
mysql> SELECT * FROM Worker WHERE DEPARTMENT='Admin' ;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin
| 5 | Vivek | Bhati | 500000 | 2014-06-11 09:00:00 | Admin
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

16.

```
mysql> SELECT * FROM Worker WHERE FIRST_NAME LIKE '%a%';
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin
| 7 | Satish | Kumar | 75000 | 2014-01-20 09:00:00 | Account
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin
+-----+-----+-----+-----+-----+
```

17.

```
mysql> SELECT * FROM Worker WHERE FIRST_NAME LIKE '_%a';
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

18.

```
mysql> SELECT * FROM Worker WHERE FIRST_NAME LIKE '%h' AND FIRST_NAME LIKE '_____';  
+-----+-----+-----+-----+-----+  
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |  
+-----+-----+-----+-----+-----+  
| 7 | Satish | Kumar | 75000 | 2014-01-20 09:00:00 | Account |  
+-----+-----+-----+-----+-----+  
1 row in set (0.00 sec)
```

19.

```
mysql> SELECT * FROM Worker WHERE SALARY BETWEEN 100000 and 500000;  
+-----+-----+-----+-----+-----+  
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |  
+-----+-----+-----+-----+-----+  
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |  
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR |  
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin |  
| 5 | Vivek | Bhati | 500000 | 2014-06-11 09:00:00 | Admin |  
| 6 | Vipul | Diwan | 200000 | 2014-06-11 09:00:00 | Account |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

20.

```
mysql> SELECT * FROM Worker WHERE YEAR(JOINING_DATE) = 2014 AND MONTH(JOINING_DATE) = 2;  
+-----+-----+-----+-----+-----+  
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |  
+-----+-----+-----+-----+-----+  
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |  
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR |  
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

21.

```
mysql> SELECT COUNT(*) FROM Worker WHERE DEPARTMENT='Admin';  
+-----+  
| COUNT(*) |  
+-----+  
| 4 |  
+-----+  
1 row in set (0.00 sec)  
  
mysql> []
```

22.

```
mysql> SELECT FIRST_NAME FROM Worker WHERE SALARY>=50000 AND SALARY<=100000;
+-----+
| FIRST_NAME |
+-----+
| Monika    |
| Niharika   |
| Satish    |
| Geetika   |
+-----+
4 rows in set (0.00 sec)
```

23.

```
mysql> SELECT DEPARTMENT,COUNT(*) AS "NUMBER OF WORKERS" FROM Worker GROUP BY DEPARTMENT ORDER BY COUNT(*) DESC;
+-----+-----+
| DEPARTMENT | NUMBER OF WORKERS |
+-----+-----+
| Admin      |        4 |
| HR         |        2 |
| Account    |        2 |
+-----+-----+
3 rows in set (0.00 sec)
```

24.

```
mysql> SELECT W.* FROM Worker W JOIN Title T ON W.WORKER_ID = T.WORKER_REF_ID WHERE T.WORKER_TITLE = 'Manager';
+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+
| 1 | Monika    | Arora     | 100000 | 2014-02-20 09:00:00 | HR          |
| 5 | Vivek     | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin       |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

25. -

26.

```
mysql> SELECT * FROM Worker WHERE MOD(WORKER_ID,2)=1;
+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+
| 1 | Monika    | Arora     | 100000 | 2014-02-20 09:00:00 | HR          |
| 3 | Vishal    | Singhal   | 300000 | 2014-02-20 09:00:00 | HR          |
| 5 | Vivek     | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin       |
| 7 | Satish    | Kumar     | 75000  | 2014-01-20 09:00:00 | Account    |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

27.

```
mysql> SELECT * FROM Worker WHERE MOD(WORKER_ID,2)=0;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|        2 | Niharika   | Verma      | 80000  | 2014-06-11 09:00:00 | Admin      |
|       4 | Amitabh    | Singh       | 500000 | 2014-02-20 09:00:00 | Admin      |
|       6 | Vipul       | Diwan       | 200000 | 2014-06-11 09:00:00 | Account    |
|       8 | Geetika     | Chauhan    | 90000  | 2014-04-11 09:00:00 | Admin      |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

28.

```
mysql> CREATE TABLE Worker_2 AS SELECT * FROM Worker;
Query OK, 8 rows affected (0.03 sec)
Records: 8  Duplicates: 0  Warnings: 0
```

29.

```
mysql> SELECT WORKER_REF_ID FROM Bonus INTERSECT SELECT WORKER_REF_ID FROM Title;
+-----+
| WORKER_REF_ID |
+-----+
|      1 |
|      2 |
|      3 |
+-----+
3 rows in set (0.00 sec)
```

30.

```
mysql> SELECT * FROM Title WHERE WORKER_REF_ID NOT IN (SELECT WORKER_REF_ID FROM Bonus );
+-----+-----+-----+
| WORKER_REF_ID | WORKER_TITLE | AFFECTED_FROM |
+-----+-----+-----+
|      8 | Executive   | 2016-06-11 00:00:00 |
|      5 | Manager     | 2016-06-11 00:00:00 |
|      4 | Asst. Manager | 2016-06-11 00:00:00 |
|      7 | Executive   | 2016-06-11 00:00:00 |
|      6 | Lead         | 2016-06-11 00:00:00 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

31.

```
mysql> SELECT NOW();
+-----+
| NOW( ) |
+-----+
| 2024-06-08 21:52:04 |
+-----+
1 row in set (0.00 sec)
```

32.

```
mysql> SELECT * FROM Worker LIMIT 5;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin
| 5 | Vivek | Bhati | 500000 | 2014-06-11 09:00:00 | Admin
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

33.

```
mysql> SELECT SALARY FROM Worker ORDER BY SALARY DESC LIMIT 1 OFFSET 4;
+-----+
| SALARY |
+-----+
| 100000 |
+-----+
1 row in set (0.00 sec)
```

34.

```
mysql> SELECT salary FROM (    SELECT salary, ROW_NUMBER() OVER (ORDER BY salary DESC)
) AS rn      FROM Worker ) AS ranked WHERE rn = 5;
+-----+
| salary |
+-----+
| 100000 |
+-----+
1 row in set (0.00 sec)
```

35.

```
mysql> SELECT DISTINCT w1.* FROM Worker w1 JOIN Worker w2 ON w1.salary = w2.salary AND w1.worker_id <> w2.worker_id;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|      5 | Vivek     | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin    |
|      4 | Amitabh   | Singh     | 500000 | 2014-02-20 09:00:00 | Admin    |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

36.

```
mysql> SELECT DISTINCT SALARY FROM Worker ORDER BY SALARY DESC LIMIT 1 OFFSET 1;
+-----+
| SALARY |
+-----+
| 300000 |
+-----+
1 row in set (0.00 sec)
```

37.

```
mysql> SELECT * FROM Worker UNION ALL SELECT * FROM Worker ORDER BY WORKER_ID;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|      1 | Monika    | Arora    | 100000 | 2014-02-20 09:00:00 | HR        |
|      1 | Monika    | Arora    | 100000 | 2014-02-20 09:00:00 | HR        |
|      2 | Niharika   | Verma    | 80000  | 2014-06-11 09:00:00 | Admin     |
|      2 | Niharika   | Verma    | 80000  | 2014-06-11 09:00:00 | Admin     |
|      3 | Vishal     | Singhal  | 300000 | 2014-02-20 09:00:00 | HR        |
|      3 | Vishal     | Singhal  | 300000 | 2014-02-20 09:00:00 | HR        |
|      4 | Amitabh   | Singh    | 500000 | 2014-02-20 09:00:00 | Admin     |
|      4 | Amitabh   | Singh    | 500000 | 2014-02-20 09:00:00 | Admin     |
|      5 | Vivek      | Bhati    | 500000 | 2014-06-11 09:00:00 | Admin     |
|      5 | Vivek      | Bhati    | 500000 | 2014-06-11 09:00:00 | Admin     |
|      6 | Vipul       | Diwan    | 200000 | 2014-06-11 09:00:00 | Account   |
|      6 | Vipul       | Diwan    | 200000 | 2014-06-11 09:00:00 | Account   |
|      7 | Satish      | Kumar    | 75000  | 2014-01-20 09:00:00 | Account   |
|      7 | Satish      | Kumar    | 75000  | 2014-01-20 09:00:00 | Account   |
|      8 | Geetika    | Chauhan  | 90000  | 2014-04-11 09:00:00 | Admin     |
|      8 | Geetika    | Chauhan  | 90000  | 2014-04-11 09:00:00 | Admin     |
+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)
```

38.

```
mysql> SELECT WORKER_REF_ID FROM Bonus INTERSECT SELECT WORKER_REF_ID FROM Title;
+-----+
| WORKER_REF_ID |
+-----+
|      1 |
|      2 |
|      3 |
+-----+
3 rows in set (0.00 sec)
```

39.

40.

```
mysql> SELECT DEPARTMENT FROM Worker GROUP BY DEPARTMENT HAVING COUNT(*)<5;
+-----+
| DEPARTMENT |
+-----+
| HR         |
| Admin      |
| Account    |
+-----+
3 rows in set (0.00 sec)
```

41.

```
mysql> SELECT DEPARTMENT,COUNT(*) FROM Worker GROUP BY DEPARTMENT;
+-----+-----+
| DEPARTMENT | COUNT(*) |
+-----+-----+
| HR         |      2 |
| Admin      |      4 |
| Account    |      2 |
+-----+-----+
3 rows in set (0.00 sec)
```

42.

```
mysql> SELECT * FROM Worker ORDER BY WORKER_ID DESC LIMIT 1;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|       8 | Geetika   | Chauhan   | 90000  | 2014-04-11 09:00:00 | Admin     |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

43.

```
mysql> SELECT * FROM Worker  LIMIT 1;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|       1 | Monika    | Arora     | 100000 | 2014-02-20 09:00:00 | HR        |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

44.

```
mysql> SELECT * FROM Worker ORDER BY WORKER_ID DESC LIMIT 5;
+-----+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+-----+
|     8 | Geetika    | Chauhan   | 90000  | 2014-04-11 09:00:00 | Admin      |
|     7 | Satish     | Kumar     | 75000  | 2014-01-20 09:00:00 | Account    |
|     6 | Vipul       | Diwan     | 200000 | 2014-06-11 09:00:00 | Account    |
|     5 | Vivek      | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin      |
|     4 | Amitabh    | Singh     | 500000 | 2014-02-20 09:00:00 | Admin      |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

45.

```
mysql> SELECT W.DEPARTMENT,W.FIRST_NAME,W.SALARY FROM Worker W JOIN ( SELECT DEPARTMENT,MAX(SALARY) AS MAX_SAL FROM Worker GROUP BY DEPARTMENT ) AS MAX_S ON W.DEPARTMENT = MAX_S.DEPARTMENT AND W.SALARY=MAX_S.MAX_SAL;
+-----+-----+-----+
| DEPARTMENT | FIRST_NAME | SALARY |
+-----+-----+-----+
| HR          | Vishal     | 300000 |
| Admin       | Amitabh    | 500000 |
| Admin       | Vivek      | 500000 |
| Account     | Vipul      | 200000 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

46.

```
mysql> SELECT * FROM Worker ORDER BY SALARY DESC LIMIT 3;
+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+
|     5 | Vivek      | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin      |
|     4 | Amitabh    | Singh     | 500000 | 2014-02-20 09:00:00 | Admin      |
|     3 | Vishal     | Singhal   | 300000 | 2014-02-20 09:00:00 | HR         |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

47.

```
mysql> SELECT * FROM Worker ORDER BY SALARY ASC LIMIT 3;
+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+
|     7 | Satish     | Kumar     | 75000  | 2014-01-20 09:00:00 | Account    |
|     2 | Niharika   | Verma     | 80000  | 2014-06-11 09:00:00 | Admin      |
|     8 | Geetika    | Chauhan   | 90000  | 2014-04-11 09:00:00 | Admin      |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

48. N=3

```
mysql> SELECT * FROM Worker ORDER BY SALARY DESC LIMIT 3;
+-----+-----+-----+-----+-----+
| WORKER_ID | FIRST_NAME | LAST_NAME | SALARY | JOINING_DATE | DEPARTMENT |
+-----+-----+-----+-----+-----+
|     5 | Vivek      | Bhati     | 500000 | 2014-06-11 09:00:00 | Admin      |
|     4 | Amitabh    | Singh     | 500000 | 2014-02-20 09:00:00 | Admin      |
|     3 | Vishal     | Singhal   | 300000 | 2014-02-20 09:00:00 | HR         |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

49.

```
mysql> SELECT DEPARTMENT,SUM(SALARY) AS TOTAL FROM Worker GROUP BY DEPARTMENT;
+-----+-----+
| DEPARTMENT | TOTAL   |
+-----+-----+
| HR         | 400000  |
| Admin      | 1170000 |
| Account    | 275000  |
+-----+-----+
3 rows in set (0.00 sec)
```

50.

```
mysql> SELECT FIRST_NAME FROM Worker WHERE SALARY = (SELECT MAX(SALARY) FROM Worker);
+-----+
| FIRST_NAME |
+-----+
| Amitabh   |
| Vivek     |
+-----+
2 rows in set (0.00 sec)
```