ASSIGNMENT-6

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 |
+------+

2. Write an SQL query to fetch "FIRST_NAME" from the Worker table in upper case.

3. Write an SQL query to fetch unique values of DEPARTMENT from the Worker table.

| Account |

4. Write an SQL query to print the first three characters of FIRST_NAME from the Worker table.

5. Write an SQL query to find the position of the alphabet ('a') in the first name column 'Amitabh' from the Worker table.

select position('a' in first_name) from Worker where first_name='Amitabh';
+-----+
| position('a' in first_name) |
+-----+
| 1 |
1 |
1 row in set (0.00 sec)

6. Write an SQL query to print all Worker details from the Worker table order by FIRST NAME Ascending.

```
select * from Worker order by first name asc;
+-----+----+------
| worker id | first name | last name | salary | joining date
                                                   I department I
+-----+
                           | 500000 | 2014-02-20 09:00:00 | Admin
     3 | Amitabh | Singh
     8 | Geetika
                | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin
     1 | Monika
                 l Arora
                          | 100000 | 2014-02-20 09:00:00 | HR
     2 | Niharika | Verma
                           | 80000 | 2014-06-11 09:00:00 | Admin |
     7 | Satish
                           | 75000 | 2014-01-20 09:00:00 | Account
                l kumar
                           | 200000 | 2014-06-11 09:00:00 | Account
     6 | Vipul
                 | Diwan
     2 | Vishal
                 | Singhal | 300000 | 2014-02-20 09:00:00 | HR
                            | 500000 | 2014-06-11 09:00:00 | Admin
     5 | Vivek
                 I Bhati
8 rows in set (0.00 sec)
```

7. Write an SQL query to print all Worker details from the Worker table order by FIRST_NAME Ascending and DEPARTMENT Descending.

```
select * from Worker order by first name asc, department desc;
| worker id | first name | last name | salary | joining date | department |
+-----+
      3 | Amitabh | Singh
                            | 500000 | 2014-02-20 09:00:00 | Admin
     8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin
     1 | Monika
                 l 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
                 | Singhal | 300000 | 2014-02-20 09:00:00 | HR
     2 | Vishal
                          | 500000 | 2014-06-11 09:00:00 | Admin
                 l Bhati
     5 | Vivek
8 rows in set (0.00 sec)
```

8. Write an SQL query to print details for Workers with the first names "Vipul" and "Satish" from the Worker table.

9. Write an SQL query to print details of workers excluding first names, "Vipul" and "Satish" from the Worker table.

10. Write an SQL query to print details of Workers with DEPARTMENT name as "Admin".

11. Write an SQL query to print details of the Workers whose FIRST_NAME contains 'A'.

12. Write an SQL query to print names of the Workers whose FIRST_NAME ends with 'a'.

13. 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 '____a';
+-----+----+-----+
| 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)
```

14. Write an SQL query to print details of the Workers whose SALARY lies between 100000 and 500000.

15. Write an SQL query to print details of the Workers who joined in Feb'2014.

16. Write an SQL query to fetch the count of employees working in the department 'Admin'.

17. Write an SQL query to fetch worker names with salaries >= 50000 and <= 100000.

mysql> select Worker.first_name,Worker.last_name,Worker.salary from Worker where salary between 100000 and 500000;

```
+-----+
| first_name | last_name | salary |
+-----+
| Monika | Arora | 100000 |
| Vishal | Singhal | 300000 |
| Amitabh | Singh | 500000 |
| Vivek | Bhati | 500000 |
| Vipul | Diwan | 200000 |
+-----+
5 rows in set (0.00 sec)
```

18. Write an SQL query to fetch the no. of workers for each department in descending order.

mysql> select department,count(department) as NO_OF_WORKERS from Worker group by department order by count(department) desc;

19. Write an SQL query to print details of the Workers who are also Managers.

20. Write an SQL query to fetch duplicate records having matching data in some fields of a table.

1 row in set (0.00 sec)

Q21.Write an SQL query to show only odd rows from a table

Q22. Write an SQL query to show only even rows from a table

23. Write an SQL guery to clone a new table from another table

```
mysql> create table Worker clone as select * from Worker;
Query OK, 8 rows affected (0.55 sec)
Records: 8 Duplicates: 0 Warnings: 0
mysql> select * from Worker clone;
| 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
    6 | Vipul | Diwan | 200000 | 2014-06-11 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 rows in set (0.00 sec)
```

24. Write an SQL query to fetch intersecting records of previous two tables

25. Write an SQL query to show records from one table that another table does not have.

```
mysql> select * from Worker EXCEPT select * from Worker_clone;
Empty set (0.00 sec)
```

26. Write an SQL query to show the top n (say 10) records of a table.

```
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)
```

27. Write an SQL query to fetch the list of employees with the same salary.

28. Write an SQL query to show the second-highest salary from a table.

```
mysql> select distinct salary from Worker order by salary desc limit 1,1;
+----+
| salary |
+----+
| 300000 |
+----+
1 row in set (0.00 sec)
```

29. Write an SQL query to fetch intersecting records of two tables.

```
mysql> select * from title intersect select * from bonus;
Empty set (0.00 sec)
```

3 rows in set (0.01 sec)

31. Write an SQL query to fetch the departments that have less than five people in them.

32. Write an SQL query to show all departments along with the number of people in there.

33. 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 |
+-----+
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin |
+-----+
| 1 row in set (0.00 sec)
```

34. 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 |
+-----+----+-----+
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |
+-----+-----+------+
1 row in set (0.00 sec)
```

35. Write an SQL query to fetch the last five records from a table.

36. Write an SQL query to print the name of employees having the highest salary in each department.

```
mysql> select first_name, last_name from Worker where(department, salary) in (select department, max(salary) from Worker group by department);
+-----+
| first_name | last_name |
+-----+
| Vishal | Singhal |
| Amitabh | Singh |
| Vivek | Bhati |
| Vipul | Diwan |
+-----+
4 rows in set (0.00 sec)
```

37. Write an SQL query to fetch three max salaries from a table.

```
mysql> select distinct salary from Worker order by salary desc limit 3;\
+-----+
| salary |
+-----+
| 500000 |
| 300000 |
| 200000 |
+-----+
```

3 rows in set (0.00 sec)

38. Write an SQL query to fetch departments along with the total salaries paid for each of them.

39. Write an SQL query to fetch the names of workers who earn the highest salary.

```
mysql> select first_name from Worker where salary = (select max(salary) from Worke r);
+-----+
| first_name |
+-----+
| Amitabh |
| Vivek |
+-----+
2 rows in set (0.00 sec)
```