NAME :- Divyang Bagla

PANEL :- D

ROLL NO. :- PD 33 (D2)

ASSIGNMENT NO. – 3

Create a database called COMPANY consisting of 2 tables

i. EMP

ii. DEPT

▪ EMP Table Fields

- Column name Data type Description
- EMPNO Number Employee number
- ENAME Varchar Employee name
- JOB Char Designation
- MGR Number Manager's Emp. number
- HIREDATE Date Date of joining
- SAL Number Basic Salary
- COMM Number Commission
- DEPTNO Number Department Number

```
MySQL  localhost:33060+ ssl  company  SQL > select * from dep;
+-------+------------+---------+
| depno | dname      | loc     |
+-------+------------+---------+
|    10 | Accounting | NewYork |
|    20 | Research   | Dallas  |
|    30 | Sales      | Chicago |
|    40 | Operations | Boston  |
+-------+------------+---------+
4 rows in set (0.2099 sec)
MySQL  localhost:33060+ ssl  company  SQL > select * from emp;
+-------+-----------+------------+------+------------+------+------+--------+
| empno | ename     | job        | mgr  | hiredate   | sal  | comm | deptno |
+-------+-----------+------------+------+------------+------+------+--------+
|  7123 | johny     | developer  | 1235 | 1992-12-13 |  999 |  100 |     50 |
|  7223 | john sid  | analyst    | 8834 | 1992-12-03 | 1259 |  200 |     60 |
|  7369 | Smith     | Clerk      | 7902 | 1980-12-17 |  800 |  300 |     20 |
|  7373 | Robin     | Salesman   | 7698 | 1988-08-19 | 2200 |  300 |     30 |
|  7499 | Allen     | Salesman   | 7698 | 1981-02-20 | 1760 |  300 |     30 |
|  7512 | Chris     | Accountant | 7902 | 1985-02-21 | 2400 |  500 |     10 |
|  7868 | Patrick   | Accountant | 7968 | 1982-12-23 | 1800 |  600 |     10 |
|  7877 | Sam       | Developer  | 8888 | 1988-09-24 | 3001 |  400 |     50 |
|  8233 | Sam Desai | Manager    | 7333 | 1992-12-12 | 3123 |  500 |     40 |
|  8864 | Robert    | Manager    | 7580 | 1996-04-03 | 2600 |  800 |     40 |
+-------+-----------+------------+------+------------+------+------+--------+
10 rows in set (0.2038 sec)
```

1. List the employee names and his annual salary dept wise.

```
MySQL  localhost:33060+ ssl  company  SQL > select ename , (sal*12) as salary from emp order by deptno;
+-----------+--------+
| ename     | salary |
+-----------+--------+
| Chris     |  28800 |
| Patrick   |  21600 |
| Smith     |   9600 |
| Robin     |  26400 |
| Allen     |  21120 |
| Sam Desai |  37476 |
| Robert    |  31200 |
| johny     |  11988 |
| Sam       |  36012 |
| john sid  |  15108 |
+-----------+--------+
10 rows in set (0.9194 sec)
```

2. Find out least 5 earners of the company.

```
MySQL  localhost:33060+ ssl  company  SQL > select * from emp order by sal limit 5;
+-------+----------+------------+------+------------+------+------+--------+
| empno | ename    | job        | mgr  | hiredate   | sal  | comm | deptno |
+-------+----------+------------+------+------------+------+------+--------+
|  7369 | Smith    | Clerk      | 7902 | 1980-12-17 |  800 |  300 |     20 |
|  7123 | johny    | developer  | 1235 | 1992-12-13 |  999 |  100 |     50 |
|  7223 | john sid | analyst    | 8834 | 1992-12-03 | 1259 |  200 |     60 |
|  7499 | Allen    | Salesman   | 7698 | 1981-02-20 | 1760 |  300 |     30 |
|  7868 | Patrick  | Accountant | 7968 | 1982-12-23 | 1800 |  600 |     10 |
+-------+----------+------------+------+------------+------+------+--------+
5 rows in set (0.0008 sec)
```

3. List the records from emp whose deptno is not in dept

```
MySQL  localhost:33060+ ssl  company  SQL > select * from emp where deptno not in (select depno from dep);
+-------+----------+-----------+------+------------+------+------+--------+
| empno | ename    | job       | mgr  | hiredate   | sal  | comm | deptno |
+-------+----------+-----------+------+------------+------+------+--------+
|  7123 | johny    | developer | 1235 | 1992-12-13 |  999 |  100 |     50 |
|  7223 | john sid | analyst   | 8834 | 1992-12-03 | 1259 |  200 |     60 |
|  7877 | Sam      | Developer | 8888 | 1988-09-24 | 3001 |  400 |     50 |
+-------+----------+-----------+------+------------+------+------+--------+
3 rows in set (1.6920 sec)
```

4. List those employees whose sal is odd value.

```
MySQL  localhost:33060+ ssl  company  SQL > select * from emp where sal%2 <> 0;
+-------+-----------+-----------+------+------------+------+------+--------+
| empno | ename     | job       | mgr  | hiredate   | sal  | comm | deptno |
+-------+-----------+-----------+------+------------+------+------+--------+
|  7123 | johny     | developer | 1235 | 1992-12-13 |  999 |  100 |     50 |
|  7223 | john sid  | analyst   | 8834 | 1992-12-03 | 1259 |  200 |     60 |
|  7877 | Sam       | Developer | 8888 | 1988-09-24 | 3001 |  400 |     50 |
|  8233 | Sam Desai | Manager   | 7333 | 1992-12-12 | 3123 |  500 |     40 |
+-------+-----------+-----------+------+------------+------+------+--------+
4 rows in set (0.0010 sec)
```

5. List the employees whose sal contain 3 digits.

```
MySQL  localhost:33060+ ssl  company  SQL > select * from emp where length(sal) = 3;
+-------+-------+-----------+------+------------+-----+------+--------+
| empno | ename | job       | mgr  | hiredate   | sal | comm | deptno |
+-------+-------+-----------+------+------------+-----+------+--------+
|  7123 | johny | developer | 1235 | 1992-12-13 | 999 |  100 |     50 |
|  7369 | Smith | Clerk     | 7902 | 1980-12-17 | 800 |  300 |     20 |
+-------+-------+-----------+------+------------+-----+------+--------+
2 rows in set (0.0340 sec)
```

6. List the employees who joined in the month of ‘DEC’.

```
MySQL  localhost:33060+ ssl  company  SQL > select * from emp where month(hiredate) = 12;
+-------+-----------+------------+------+------------+------+------+--------+
| empno | ename     | job        | mgr  | hiredate   | sal  | comm | deptno |
+-------+-----------+------------+------+------------+------+------+--------+
|  7123 | johny     | developer  | 1235 | 1992-12-13 |  999 |  100 |     50 |
|  7223 | john sid  | analyst    | 8834 | 1992-12-03 | 1259 |  200 |     60 |
|  7369 | Smith     | Clerk      | 7902 | 1980-12-17 |  800 |  300 |     20 |
|  7868 | Patrick   | Accountant | 7968 | 1982-12-23 | 1800 |  600 |     10 |
|  8233 | Sam Desai | Manager    | 7333 | 1992-12-12 | 3123 |  500 |     40 |
+-------+-----------+------------+------+------------+------+------+--------+
5 rows in set (0.0338 sec)
```

7. List the employees whose names contains ‘A’

```
MySQL  localhost:33060+ ssl  company  SQL > select * from emp where ename like '%A%';
+-------+-----------+------------+------+------------+------+------+--------+
| empno | ename     | job        | mgr  | hiredate   | sal  | comm | deptno |
+-------+-----------+------------+------+------------+------+------+--------+
|  7499 | Allen     | Salesman   | 7698 | 1981-02-20 | 1760 |  300 |     30 |
|  7868 | Patrick   | Accountant | 7968 | 1982-12-23 | 1800 |  600 |     10 |
|  7877 | Sam       | Developer  | 8888 | 1988-09-24 | 3001 |  400 |     50 |
|  8233 | Sam Desai | Manager    | 7333 | 1992-12-12 | 3123 |  500 |     40 |
+-------+-----------+------------+------+------------+------+------+--------+
4 rows in set (0.1634 sec)
```

8. List the maximum, minimum and average salary in the company.

```
MySQL  localhost:33060+ ssl  company  SQL > select max(sal) as maximu_salary , min(sal) as minimum_salary , avg(sal) as average_salary from emp;
+--------------+----------------+----------------+
| maximu_salary | minimum_salary | average_salary |
+--------------+----------------+----------------+
|         3123 |            800 |     1994.2000 |
+--------------+----------------+----------------+
1 row in set (0.0689 sec)
```

9. Write a query to return the day of the week for any date(or HIRE_DATE)

```
MySQL  localhost:33060+ ssl  company  SQL > select dayname(hiredate) from emp ;
+--------------------+
| dayname(hiredate)  |
+--------------------+
| Sunday             |
| Thursday           |
| Wednesday          |
| Friday             |
| Friday             |
| Thursday           |
| Thursday           |
| Saturday           |
| Saturday           |
| Wednesday          |
+--------------------+
10 rows in set (0.0723 sec)
```

10. Count the no of characters in employee name without considering spaces for each name.

```
MySQL  localhost:33060+ ssl  company  SQL > select length(replace(ename ,' ' ,'')) as length_of_ename , ename from e
+-----------------+-----------+
| length_of_ename | ename     |
+-----------------+-----------+
|               5 | johny     |
|               7 | john sid  |
|               5 | Smith     |
|               5 | Robin     |
|               5 | Allen     |
|               5 | Chris     |
|               7 | Patrick   |
|               3 | Sam       |
|               8 | Sam Desai |
|               6 | Robert    |
+-----------------+-----------+
10 rows in set (0.0008 sec)
```

11. List the employees who are drawing less than 1000. sort the output by salary.

```
MySQL  localhost:33060+ ssl  company  SQL > select * from emp where sal < 1000 order by sal;
+-------+-------+-----------+------+------------+-----+------+--------+
| empno | ename | job       | mgr  | hiredate   | sal | comm | deptno |
+-------+-------+-----------+------+------------+-----+------+--------+
|  7369 | Smith | Clerk     | 7902 | 1980-12-17 | 800 |  300 |     20 |
|  7123 | johny | developer | 1235 | 1992-12-13 | 999 |  100 |     50 |
+-------+-------+-----------+------+------------+-----+------+--------+
2 rows in set (0.0150 sec)
```