## **Experiment-6**

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Batch-2

Questions: -

## 1. Create the following two tables (EMP and DEPT)

## **EMP TABLE**

EMPNO DEPTNO	O ENAME	JOB	MGR	HIREDATE	SAL	COMM
7369 20	SMITH	CLERK	7902	17-DEC-80	500	800
7499 30	ALLEN	SALESMAN	7698	20-FEB-81	1600	300
7521 30	WARD	SALESMAN	7698	22-FEB-81	1250	500
7566 20	JONES	MANAGER	7839	02-APR-81	2975	
7654 30	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400
7698 30	BLAKE	MANAGER	7839	01-MAY-81	2850	
7782 10	CLARK	MANAGER	7839	09-JUN-81	2450	
7788 20	SCOTT	ANALYST	7566	09-DEC-82	3000	
7839 10	KING	PRESIDENT		17-NOV-81	5000	
7844 30	TURNER	SALESMAN	7698	08-SEP-81	1500	0

	7876	ADAMS	CLERK	7788	12-JAN-83	1100	
20							
30	7900	JAMES	CLERK	7698	03-DEC-81	950	
	7902	FORD	ANALYST	7566	03-DEC-81	3000	20
	7934	MILLER	CLERK	7782	23-JAN-82	1300	10

## **DEPT TABLE**

DEPTNO	DNAME	LOC	
10	ACCOUNTING	NEW YORK	
20	RESEARCH	DALLAS	
30	SALES	CHICAGO	
40	OPERATIONS	BOSTON	

Write the Queries for the following using In-built functions.

- 1. Retrieve average salary of all employees.
- 2. Retrieve the number of employees.
- 3. Retrieve distinct number of employees.
- 4. Retrieve total salary of employee group by job.
- 5. Display the employee information with maximum salary.
- 6. Find the highest paid employee in department 10.
- 7. List the emps whose salary is equal to the average of max and minimum.
- 8. List the emps who joined in the company on the same date.
- 9. Display the employee names in upper and lower case.
- 10. find the date of 3 days later from hire date.
- 11. Solution: -
- 12. Creation && insertion on both the tables: -
- 13. Screenshot:

```
supplier_part
      works_on
    12 rows in set (0.01 sec)
    mysql> CREATE TABLE EMP (
               EMPNO INT PRIMARY KEY,
        ->
               ENAME VARCHAR(50),
        ->
        ->
               JOB VARCHAR(50),
               MGR INT,
        ->
               HIREDATE DATE,
        ->
        ->
               SAL DECIMAL(10, 2)
        ->
               COMM DECIMAL(10, 2),
        ->
               DEPTNO INT
        -> );
    Query OK, 0 rows affected (0.07 sec)
    mysql> CREATE TABLE DEPT (
               DEPTNO INT PRIMARY KEY,
        ->
               DNAME VARCHAR(50),
        ->
               LOC VARCHAR(50)
        ->
        -> );
    Query OK, 0 rows affected (0.06 sec)
14.
```

```
Mysql> INSERT INTO EMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES
    -> (7369, 'SMITH', 'CLERK', 7902, '1980-12-17', 500, 800, 20),
    -> (7499, 'ALLEN', 'SALESMAN', 7698, '1981-02-20', 1600, 300, 30),
    -> (7521, 'WARD', 'SALESMAN', 7698, '1981-02-22', 1250, 500, 30),
    -> (7564, 'JONES', 'MANAGER', 7839, '1981-04-02', 2975, NULL, 20),
    -> (7654, 'MARTIN', 'SALESMAN', 7698, '1981-09-28', 1250, 1400, 30),
    -> (7698, 'BLAKE', 'MANAGER', 7839, '1981-05-01', 2850, NULL, 30),
    -> (7782, 'CLARK', 'MANAGER', 7839, '1981-06-09', 2450, NULL, 10),
    -> (7788, 'SCOTT', 'ANALYST', 7566, '1982-12-09', 3000, NULL, 20),
    -> (7839, 'KING', 'PRESIDENT', NULL, '1981-11-17', 5000, NULL, 20),
    -> (7844, 'TURNER', 'SALESMAN', 7698, '1981-09-08', 1500, 0, 30),
    -> (7876, 'ADAMS', 'CLERK', 7788, '1983-01-12', 1100, NULL, 20),
    -> (7900, 'JAMES', 'CLERK', 7698, '1981-12-03', 950, NULL, 20),
    -> (7934, 'MILLER', 'CLERK', 7782, '1982-01-23', 1300, NULL, 20),
    -> (7934, 'MILLER', 'CLERK', 7782, '1982-01-23', 1300, NULL, 10);
Query OK, 14 rows affected (0.02 sec)
Records: 14 Duplicates: 0 Warnings: 0

mysql> INSERT INTO DEPT (DEPTNO, DNAME, LOC) VALUES
    -> (10, 'ACCOUNTING', 'NEW YORK'),
    -> (20, 'RESEARCH', 'DALLAS'),
    -> (20, 'RESEARCH', 'DALLAS'),
    -> (10, 'PRESIDENT', 'BOSTON');
Query OK, 4 rows affected (0.02 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

16. Retrieve average salary of all employees.

```
mysql> SELECT AVG(SAL) AS AverageSalary
-> FROM EMP;
+-----+
| AverageSalary |
+------+
| 2051.785714 |
+------+
1 row in set (0.00 sec)
```

18. Retrieve the number of employees.

20. Retrieve distinct number of employees.

21. Retrieve total salary of employee group by job.

22. Find the highest paid employee in department 10.

```
mysql> SELECT *
   -> FROM EMP
   -> WHERE DEPTNO = 10
   -> AND SAL = (SELECT MAX(SAL) FROM EMP WHERE DEPTNO = 10);
 EMPNO | ENAME
                                                             COMM
                                                                    DEPTNO
                              MGR
                                     HIREDATE
                                                   SAL
                  PRESIDENT
                                                             NULL
  7839
         KING
                              NULL | 1981-11-17 | 5000.00 |
                                                                        10 l
 row in set (0.00 sec)
```

23. List the emps whose salary is equal to the average of max and minimum.

24.

25. List the emps who joined in the company on the same date.

```
mysql> SELECT ENAME, HIREDATE
    -> FROM EMP
    -> WHERE HIREDATE IN (
           SELECT HIREDATE
           FROM EMP
GROUP BY HIREDATE
    ->
    ->
           HAVING COUNT(*) > 1
    -> );
          HIREDATE
 ENAME
  JAMES
          1981-12-03
  FORD
          1981-12-03
 rows in set (0.01 sec)
```

26. 9. Display the employee information with maximum salary.

```
mysql> SELECT *
    -> FROM EMP
    -> WHERE SAL = (SELECT MAX(SAL) FROM EMP);
 EMPNO |
                                                                    DEPTNO |
          ENAME | JOB
                             I MGR
                                      HIREDATE
                                                 SAL
                                                           COMM
   7839
          KING
                  PRESIDENT
                              NULL
                                      1981-11-17
                                                             NULL
                                                                         10
1 row in set (0.00 sec)
```

27.

28. Display the employee names in upper and lower case.

```
mysql> SELECT UPPER(ENAME) AS UpperCaseName, LOWER(ENAME) AS LowerCaseName
    -> FROM EMP;
 UpperCaseName | LowerCaseName
 SMITH
                  smith
 ALLEN
                  allen
 WARD
                  ward
 JONES
                  jones
                  martin
 MARTIN
 BLAKE
                  blake
 CLARK
                  clark
 SCOTT
                  scott
 KING
                  king
 TURNER
                  turner
 ADAMS
                  adams
 JAMES
                  james
                  ford
 FORD
 MILLER
                  miller
14 rows in set (0.01 sec)
```

29.

30. find the date of 3 days later from hiredate.

```
mysql> SELECT ENAME, HIREDATE, HIREDATE + INTERVAL '3' DAY AS DateAfter3Days
    -> FROM EMP;
| ENAME | HIREDATE
                          | DateAfter3Days |
                            1980-12-20
1981-02-23
             1980-12-17
  SMITH
             1981-02-20
1981-02-22
  ALLEN
  WARD
                            1981-02-25
             1981-04-02
                            1981-04-05
  JONES
  MARTIN
             1981-09-28
                            1981-10-01
             1981-05-01
1981-06-09
  BLAKE
                            1981-05-04
                            1981-06-12
  CLARK
             1982-12-09
1981-11-17
  SCOTT
                            1982-12-12
  KING
                             1981-11-20
  TURNER
             1981-09-08
                            1981-09-11
  ADAMS
             1983-01-12
                            1983-01-15
             1981-12-03
1981-12-03
                            1981-12-06
1981-12-06
  JAMES
  FORD
  MILLER |
            1982-01-23
                            1982-01-26
14 rows in set (0.01 sec)
```