

EXPERIMENT 6

ANS-

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

SOL-

```
mysql> Select*from EMP;
+-----+-----+-----+-----+-----+-----+-----+-----+
| EMPNO | EMPNAME | JOB      | MGR  | HIREDATE | SAL      | COMM      | DEPTNO |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 7369 | SMITH   | CLERK    | 7902 | 1980-12-17 | 500.00   | 800.00    | 20     |
| 7499 | ALLEN   | SALESMAN | 7698 | 1981-02-20 | 1600.00  | 300.00    | 30     |
| 7521 | WARD    | SALESMAN | 7698 | 1981-02-22 | 1250.00  | 500.00    | 30     |
| 7566 | JONES   | MANAGER  | 7839 | 1981-04-02 | 2975.00  | NULL      | 20     |
| 7654 | MARTIN  | SALESMAN | 7698 | 1981-09-28 | 1250.00  | 1400.00   | 30     |
| 7698 | BLAKE   | MANAGER  | 7839 | 1981-05-01 | 2850.00  | NULL      | 30     |
| 7782 | CLARK   | MANAGER  | 7839 | 1981-06-09 | 2450.00  | NULL      | 10     |
| 7788 | SCOTT   | ANALYST  | 7566 | 1982-12-09 | 3000.00  | NULL      | 20     |
| 7839 | KING    | PRESIDENT | NULL | 1981-11-17 | 5000.00  | NULL      | 10     |
| 7844 | TURNER  | SALESMAN | 7698 | 1981-09-08 | 1500.00  | 0.00      | 30     |
| 7876 | ADAMS   | CLERK    | 7788 | 1983-01-12 | 1100.00  | NULL      | 20     |
| 7900 | JAMES   | CLERK    | 7698 | 1981-12-03 | 950.00   | NULL      | 30     |
| 7902 | FORD    | ANALYST  | 7566 | 1981-12-03 | 3000.00  | NULL      | 20     |
| 7934 | MILLER  | CLERK    | 7782 | 1982-01-23 | 1300.00  | NULL      | 10     |
+-----+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.00 sec)
```

```
mysql> Select*from DEPT;
+-----+-----+-----+
| DEPTNO | DNAME      | LOC      |
+-----+-----+-----+
| 10     | ACCOUNTING | NEW YORK |
| 20     | RESEARCH   | DALLAS   |
| 30     | SALES      | CHICAGO  |
| 40     | OPERATIONS | BOSTON   |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

1)Retrieve average salary of all employees.

```
mysql> Select AVG(SAL) From EMP;
+-----+
| AVG(SAL) |
+-----+
| 2051.785714 |
+-----+
1 row in set (0.01 sec)
```

2.)Retrieve the number of employees.

```
mysql> Select Count(*) From EMP;
+-----+
| Count(*) |
+-----+
|          14 |
+-----+
1 row in set (0.01 sec)
```

3.Retrieve distinct number of employee.

```
mysql> SELECT COUNT(DISTINCT EMPID) AS DistinctEmployees from EMP;
+-----+
| DistinctEmployees |
+-----+
|          14 |
+-----+
1 row in set (0.01 sec)
```

4.Retrieve total salary of employee group by job.

```
mysql> Select JOB,SUM(SAL) FROM EMP
-> GROUP BY JOB;
```

JOB	SUM(SAL)
CLERK	3850.00
SALESMAN	5600.00
MANAGER	8275.00
ANALYST	6000.00
PRESIDENT	5000.00

5 rows in set (0.00 sec)

5.Display the employee information with maximum salary.

```
mysql> SELECT *
-> FROM EMP
-> WHERE SAL = (SELECT MAX(SAL) FROM EMP);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10

1 row in set (0.00 sec)

6.Find the highest paid employee in department

```
mysql> Select * from EMP WHERE DEPNO=10
-> AND SAL=(SELECT MAX(SAL) FROM EMP WHERE DEPNO=10);
```

EMPO	EMPNAME	JOB	MGR	HIREDATE	SAL	COMM	DEPNO
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10

1 row in set (0.01 sec)

7.List the emps whose sal is equal to the average of max and minimum.

```
mysql> SELECT (MAX(SAL) + MIN(SAL)) / 2 AS AverageSalary
-> FROM EMP;
+-----+
| AverageSalary |
+-----+
| 2750.000000 |
+-----+
1 row in set (0.00 sec)
```

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

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

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

```
mysql> SELECT UPPER(EMPNAME) AS UpperCaseName, LOWER(EMPNAME) 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)

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

```
mysql> SELECT EMPNAME, HIREDATE, HIREDATE + INTERVAL '3' DAY AS DateAfter3Days
-> FROM EMP;
```

EMPNAME	HIREDATE	DateAfter3Days
SMITH	1980-12-17	1980-12-20
ALLEN	1981-02-20	1981-02-23
WARD	1981-02-22	1981-02-25
JONES	1981-04-02	1981-04-05
MARTIN	1981-09-28	1981-10-01
BLAKE	1981-05-01	1981-05-04
CLARK	1981-06-09	1981-06-12
SCOTT	1982-12-09	1982-12-12
KING	1981-11-17	1981-11-20
TURNER	1981-09-08	1981-09-11
ADAMS	1983-01-12	1983-01-15
JAMES	1981-12-03	1981-12-06
FORD	1981-12-03	1981-12-06
MILLER	1982-01-23	1982-01-26

14 rows in set (0.01 sec)