Assignment No. 2

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A.° Creation of Table

create table DEPT
(DEPTNO int(2) primary key,DNAME
varchar(40) NOT NULL,
LOC varchar(40) NOT NULL);

```
create table EMP
(EMPNO int primary key, ENAME
varchar(40) NOT NULL, JOB char(9)
NOT NULL,
MGR int references EMP(EMPNO), HIREDATE
date NOT NULL,
SAL int NOT NULL,
COMM int,
DEPTNO int references DEPT(DEPTNO));
```

<B. Execution of Querie □:>

a) List the names of analysts and salesmen.

```
mysql> select ENAME from EMP where JOB="analyst" or JOB="salesman";
+-----+
| ENAME |
+----+
| Allen |
| Ward |
| Martin |
| Scott |
| Turner |
| Ford |
+-----+
6 rows in set (0.00 sec)
```

b) List details of employees who have joined before 30 Sep 81.

```
mysql> select * from EMP where HIREDATE < '1981-09-30';
| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
  7369 | Smith | Clerk | 7902 | 1980-12-17 | 800 | NULL | 20 |
  7499 | Allen | Salesman | 7698 | 1981-02-20 | 1600 | 300 |
                                                             30 l
  7521 | Ward | Salesman | 7698 | 1981-02-22 | 1250 | 500 | 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL |
                                                             30
                                                             20
                                                             30
  7654 | Martin | Salesman | 7698 | 1981-09-28 | 1250 | 1400 |
  7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL |
                                                             30
  7782 | Clark | Manager | 7839 | 1981-06-09 | 2450 | NULL |
                                                             10
 7844 | Turner | Salesman | 7698 | 1981-09-08 | 1500 | 0 |
                                                              30 l
8 rows in set (0.00 sec)
```

c) List names of employees who are not managers.

```
mysql> select ENAME from EMP where NOT JOB='Manager';
+-----+
| ENAME |
+-----+
| Smith |
| Allen |
| Ward |
| Martin |
| Scott |
| King |
| Turner |
| Adams |
| James |
| Ford |
| Miller |
+-----+
11 rows in set (0.00 sec)
```

d) List the names of employees whose employee numbers are 7369,7521, 7839, 7934,7788

```
mysql> select ENAME from EMP where EMPN0=7369 or EMPN0=7521 or EMPN0=7839 or EMPN0=7934 or EMPN0=7788;
+------+
| ENAME |
+-----+
| Smith |
| Ward |
| Scott |
| King |
| Miller |
+-----+
5 rows in set (0.00 sec)
```

e) List employees not belonging to department 30, 40, or 10.

```
mysql> select * from EMP where NOT DEPTNO=30 and NOT DEPTNO = 40 and NOT DEPTNO = 10;
| EMPNO | ENAME | JOB
                                   | MGR | HIREDATE | SAL | COMM | DEPTNO |
   7369 | Smith | Clerk | 7902 | 1980-12-17 | 800 | NULL |
                                                                                           20
   7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL |
7788 | Scott | Analyst | 7566 | 1982-12-09 | 3000 | NULL |
7876 | Adams | Clerk | 7788 | 1983-01-12 | 1100 | NULL |
7900 | James | Clerk | 7698 | 1981-12-03 | 950 | NULL |
                                                                                           20
                                                                                           20
                                                                                           20
    7900 | James | Clerk
                                      7698 | 1981-12-03 |
                                                                           NULL |
                                                                  950
                                                                                           20
    7902 | Ford | Analyst | 7566 | 1981-12-04 | 3000 | NULL |
                                                                                           20
  rows in set (0.00 sec)
```

f) List employee names for those who have joined between 30 June and 31 Dec. '81.

```
mysql> select ENAME from EMP where HIREDATE between '1981-06-30' and '1981-12-31';
+-----+
| ENAME |
+-----+
| Martin |
| King |
| Turner |
| James |
| Ford |
+-----+
5 rows in set (0.00 sec)
```

g) List the different designations in the company.

h) List the names of employees who are not eligible for commission.

```
mysql> select ENAME from EMP where COMM is NOT NULL;
+----+
| ENAME |
+----+
| Allen |
| Ward |
| Martin |
| Turner |
+----+
4 rows in set (0.00 sec)
```

i) List the name and designation of the employee who does notreport to anybody.

j) List the employees not assigned to any department.

```
mysql> select * from EMP where DEPTNO is NULL;
Empty set (0.00 sec)
```

k) List the employees who are eligible for commission.

l) List employees whose names either start or end with "S".

```
mysql> select * from EMP where ENAME like 'S%';

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |

| 7369 | Smith | Clerk | 7902 | 1980-12-17 | 800 | NULL | 20 |

| 7788 | Scott | Analyst | 7566 | 1982-12-09 | 3000 | NULL | 20 |

2 rows in set (0.00 sec)
```

m) List names of employees whose names have "i" as the secondcharacter.

o) List the number of designations available in the EMP table.

p) List the total salaries paid to the employees.

q) List the maximum, minimum and average salary in the company.

```
mysql> select max(SAL) from EMP;
+-----+
| max(SAL) |
+-----+
| 5000 |
+-----+
1 row in set (0.01 sec)

mysql> select min(SAL) from EMP;
+-----+
| min(SAL) |
+-----+
| 800 |
+-----+
1 row in set (0.00 sec)

mysql> select avg(SAL) from EMP;
+-----+
| avg(SAL) |
+------+
| 1 row in set (0.00 sec)
```

r) List the maximum salary paid to a salesman.

```
mysql> select max(SAL) from EMP where JOB='SALESMAN';
+-----
| max(SAL) |
+------
| 1600 |
+-----
1 row in set (0.00 sec)
```