## **ASSIGNMENT NO. 2**

# <A. Creation of tables:>

create table DEPT(
DEPTNO int primary key,
DNAME varchar(10),
LOC varchar(10));

Field	Туре	İ	Null	İ	Key	İ	Default	Extra	Ĺ
DEPTNO   DNAME	int(11) varchar(10) varchar(10)	į	NO YES	İ	PRI	į	NULL NULL		     

### After insertion of values

+   DEPTNO	+   DNAME +	LOC
•	Accounting Research	New York
30	Sales	Chicago
40 +	Operations +	Boston

### create table EMP(

- -> EMPNO int primary key,
- -> ENAME varchar(15),
- -> JOB varchar(15),
- -> MGR int references EMP(EMPNO),
- -> HIREDATE date,
- -> SAL int,
- -> COMM int,
- -> DEPTNO int references DEPT(DEPTNO));

Field	Type	Null	Key	Default	Extra
ENAME   JOB   MGR   HIREDATE   SAL   COMM	int(11)   varchar(15)   varchar(15)   int(11)   date   int(11)   int(11)	NO     YES	PRI           	NULL   NULL   NULL   NULL   NULL   NULL   NULL   NULL   NULL	

### After insertion of values

EMPNO	ENAME   JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369   7499	Smith   Clerk   Allen   Salesman	7902     7698	1980-12-17 1981-02-20		NULL     300	20   30
7521   7566	Ward   Salesman   Jones   Manager	7698   7839	1981-02-22 1981-04-02	1250	500     NULL	30   20
7654 7698	Martin   Salesman   Blake   Manager	7698     7839	1981-09-28 1981-05-01	1250	1400     NULL	30   30
7782 7788	Clark   Manager   Scott   Analyst	7839     7566	1981-06-09 1982-12-09	2450	NULL	10
7839 7844	King   President   Turner   Salesman		1981-11-17 1981-09-08		NULL	10   30
7876 7900	Adams   Clerk   James   Clerk	7788     7698	1983-01-12 1981-12-03	1100 950	NULL	20   30
7902 7934	Ford   Analyst   Miller   Clerk	7566	1981-12-04 1981-01-23	3000	NULL	20
+					++	

### <B. Queries and their Solutions>

a) List the names of analysts and salesman?

## **Query:**

select ENAME

from EMP

where JOB='Analyst' OR JOB='Salesman';

### Output:-



b) List details of employees who joined before 30 Sep 1981?

### **Query:**

SELECT \*

from EMP

where HIREDATE<'1981-09-30';

+	+	+	+	+		+	
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	Smith	Clerk	7902	   1980-12-17     1981-02-20	800	NULL	20
7521	Ward	Salesman	7698	1981-02-22	1250	500	30
7654	Martin	Salesman	7698	1981-04-02   1981-09-28	1250	1400	30
7782	Clark	Manager	7839	1981-05-01   1981-06-09	2450	NULL	10
•				1981-09-08     1981-01-23			
+	+	+	+	+	<del></del>	+	+

c) List names of employees who are not managers?

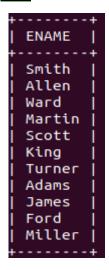
## **Query:**

select ENAME

from EMP

where JOB NOT in ('Manager');





d) List names of employees whose employe numbers are 7369,7521,7839,7934,9988?

## Quy:

select ENAME

from EMP

where EMPNO in (7369,7521,7839,7934,9988);



e) List employees not belonging to dept 30,40,10?

## Quy.

SELECT \* from EMP where DEPTNO NOT in (30,40,10);

**Output:-**

				HIREDATE		•		
7369   S   7566   3   7788   S   7876   A	Smith   Jones   Scott   Adams	Clerk   Manager   Analyst   Clerk	7902   7839   7566   7788	1980-12-17   1981-04-02   1982-12-09   1983-01-12   1981-12-04	800 2975 3000 1100		NULL   NULL   NULL   NULL	20   20   20   20

f) List employee names for those joined between 30 June and 31 dec 1981?

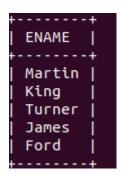
## Quy:

### SELECT ENAME

from EMP

where HIREDATE between '1981-06-30' AND '1981-12-31';

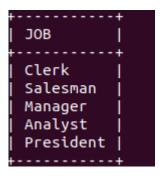
**Output:-**



g) List different designation in the company?

### Quy.

**SELECT** distinct JOB from EMP;



h) List names of employees not eligible for comission?

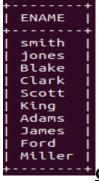
#### Quy.

SELECT ENAME

from EMP

where COMM is NULL;

Output:-

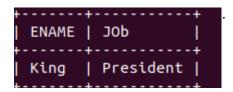


i) List names and designatin of employees who dont report to anyone ?

<u>Our</u>

SELECT ENAME,Job from EMP

where MGR is NULL; Output:-



j) List employees not assigned to any dept?

#### Quy.

SELECT \* from

**EMP** 

where DEPTNO is NULL;

**Output:-**

Empty set (0.00 sec)

k) List employees eligible for comission?

#### Quy.

SELECT \*

from EMP

where COMM is NOT NULL;

EMPNO   ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
7499   Allen 7521   Ward	Salesman	7698	1981-02-20	1600	300	30
7654   Martin 7844   Turner	Salesman	7698	1981-09-28	1250	1400	30

l) List employees whose names start or end with 's'?

# Quy.

```
SELECT *
from EMP
where ENAME like 's%' OR ENAME like '%s';
```

EMPNO   ENAME   JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
++++	7902	1980-12-17	800	NULL	20
	7839	1981-04-02	2975	NULL	20
	7566	1982-12-09	3000	NULL	20
	7788	1983-12-01	1100	NULL	20
	7698	1981-12-03	950	NULL	30

m) List names of employees whose names have 'i' as second character?

### Quy.

select ENAME

from EMP

where ENAME like '\_i%';

Output:-

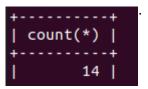


n) List number of employees workig with the company?

## Quy:

select count(\*)

from EMP;



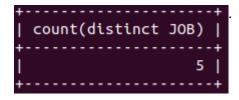
o) List the number of designations available in the EMP table?

## Quy.

select count(distinct JOB)

from EMP;

Output:

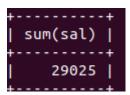


p) List total salaries paid to salaries?

# Quy.

select sum(sal)

from EMP;



q) List max, min and avg of salary in company?

## Quy:

```
select max(sal), min(sal), avg(sal)
```

from EMP;

Output:-

```
+-----+
| max(sal) | min(sal) | avg(sal) |
+-----+
| 5000 | 800 | 2073.2143 |
+-----+
```

r) List max salary paid to a salseman?

## Quy:

```
SELECT max(sal)
```

from EMP

where JOB='Salesman';

