Data Query Language- script 08/10/24

```sql
1  create database DB_EMP;
2  use DB_EMP;
3
4  -- Creating tables
5
6  CREATE TABLE dept (
7   DEPTNO            NUMERIC(2) NOT NULL,
8   DNAME             CHAR(14),
9   LOC               CHAR(13)
10 );
11
12
13 CREATE TABLE emp (
14  ID                    NUMERIC(4) NOT NULL,
15  ENAME             VARCHAR(10),
16  JOB               VARCHAR(9),
17  MGR               NUMERIC(4) ,
18  HIREDATE          DATE,
19  SAL               NUMERIC(7,2),
20  COMM              NUMERIC(7,2),
21  DEPTNO            NUMERIC(2) NOT NULL
22 );
23
24
25 CREATE TABLE salgrade (
26  GRADE             NUMERIC,
27  LOSAL             NUMERIC,
28  HISAL             NUMERIC);
29
30
31 -- Feeding tables with values
32
33 INSERT INTO dept(DEPTNO, DNAME, LOC)
34 VALUES (10, 'ACCOUNTING', 'NEW YORK');
35 INSERT INTO dept(DEPTNO, DNAME, LOC)
36 VALUES (20, 'RESEARCH', 'LONDON');
37 INSERT INTO dept(DEPTNO, DNAME, LOC)
38 VALUES (30, 'SALES', 'PARIS');
39 INSERT INTO dept(DEPTNO, DNAME, LOC)
40 VALUES (40, 'OPERATIONS', 'BERLIN');
```

```sql
41
42  INSERT INTO EMP VALUES (7839,'BUSH','PRESIDENT',NULL,'1981-11-
    17',5000,NULL,10);
43  INSERT INTO EMP VALUES (7698,'BLAIR','MANAGER',7839,'1981-05-01',2850,NULL,30);
44  INSERT INTO EMP VALUES (7782,'MERKEL','MANAGER',7839,'1981-06-
    09',2450,NULL,10);
45  INSERT INTO EMP VALUES (7566,'PUTIN','MANAGER',7839,'1981-04-02',2975,NULL,20);
46  INSERT INTO EMP VALUES (7654,'CHIRACK','SALESMAN',7698,'1981-09-
    28',1250,1400,30);
47  INSERT INTO EMP VALUES (7499,'BAROSSO','SALESMAN',7698,'1981-02-
    20',1600,300,30);
48  INSERT INTO EMP VALUES (7844,'GATES','SALESMAN',7698,'1981-09-08',1500,0,30);
49  INSERT INTO EMP VALUES (7900,'BUFFETT','CLERK',7698,'1981-12-03',950,NULL,30);
50  INSERT INTO EMP VALUES (7521,'WALTON','SALESMAN',7698,'1981-02-
    22',1250,500,30);
51  INSERT INTO EMP VALUES (7902,'TOOSK','ANALYST',7566,'1981-12-03',3000,NULL,20);
52  INSERT INTO EMP VALUES (7369,'THATCHER','CLERK',7902,'1980-12-17',800,NULL,20);
53  INSERT INTO EMP VALUES (7788,'CARNEGIE','ANALYST',7566,'1982-12-
    09',3000,NULL,20);
54  INSERT INTO EMP VALUES (7876,'FORD','CLERK',7788,'1983-01-12',1100,NULL,20);
55  INSERT INTO EMP VALUES (7934,'ELISON','CLERK',7782,'1982-01-23',1300,NULL,10);
56
57  INSERT INTO salgrade VALUES (1,700,1200);
58  INSERT INTO salgrade VALUES (2,1201,1400);
59  INSERT INTO salgrade VALUES (3,1401,2000);
60  INSERT INTO salgrade VALUES (4,2001,3000);
61  INSERT INTO salgrade VALUES (5,3001,9999);
62
63  select * from emp;
64  select ename, sal, deptno from emp where deptno=10;
65  select ename, sal from emp where sal<=1500;
66  select ename, sal, deptno from emp where deptno <> 10;
67  select ename, job, sal from emp where sal between 1500 and 2000;
68  select ename, mgr as 'matricule' from emp where MGR in (7566,7839, 7902);
69  select ename from emp where ename like 'B%' ;
70  select count(*) "count line number" from emp;
71  select sum(comm) "sum comm" from emp;
72  select*from dept;
73  select count(*) "nbre ligne de departements" from dept;
74  select count(*) "records", sum(sal) "sum salary" , max(comm) "highest
    commission", min(comm) "lowest commission" from emp;
75
76  select ename, hiredate from emp where hiredate < '1981-09-08';
77  select deptno, sum(sal) "somme" from emp group by deptno;
78
79  select*from dept;
80  select * from dept order by loc desc;
```

```sql
select deptno, sum(sal), max(sal), min(sal) from emp group by deptno;
select * from emp where comm is not null;
select sum(sal) "sal sum", deptno from emp where comm is not null group by
deptno;
```