

Name:

Class:B.Sc(IT) Sem-1 Div-A

Sub:DBMS

Assignment-5 extra aim:SQL DDL and DML STATEMENT

```
create table IT_Department
(
  DeptNo number(5),
  Dname varchar2(20),
  Loc varchar2(20)
);
```

```
create table IT_Employee
(
  EmpNo number(5),
  EName varchar2(20),
  Job varchar2(20),
  HireDate date,
  MGR number(5),
  Sal number(8),
  Comm number(6) null,
  DeptNo number(5));
```

- **Add constraints as Primary key and reference key in both table.**

```
alter table IT_Department
modify DeptNo number(5) primary key;
alter table IT_Employee
modify EmpNo number(5) primary key;
alter table IT_Employee
modify DeptNo number(5) references IT_Department(DeptNo);
```

- **Add check constraint on JOB field (CLERK,SALESMAN,MANAGER,ANALYST,PRESIDENT )**

```
alter table IT_Employee
modify Job varchar2(20) check(Job
in('CLERK','SALESMAN','MANAGER','ANALYST','PRESIDENT'));
```

- **Insert records as per given record format.**

```
insert into IT_Department
values(10,'ACCOUNTING','NEW YORK');
insert into IT_Department
values(20,'RESEARCH','DALLAS');
insert into IT_Department
values(30,'SALES','CHICAGO');
insert into IT_Department
values(40,'OPERATIONS','BOSTON');
```

```
insert into IT_Employee
values(7369,'SMITH','CLERK','12/17/1980',7902,800,0,20);
insert into IT_Employee
values(7499,'ALLEN','SALESMAN','02/20/1981',7698,1600,300,30);
insert into IT_Employee
values(7521,'WARD','SALESMAN','02/22/1981',7698,1250,500,30);
insert into IT_Employee
values(7566,'JONES','MANAGER','04/02/1981',7839,2975,0,20);
insert into IT_Employee
```

```
values(7654,'MARTIN','SALESMAN','09/28/1981',7698,1250,1400,30);
insert into IT_Employee
values(7698,'BLAKE','MANAGER','05/01/1981',7839,2850,0,30);
insert into IT_Employee
values(7782,'CLARK','MANAGER','06/09/1981',7839,2450,0,10);
```

```
insert into IT_Employee
values(7788,'SCOTT','ANALYST','04/19/1987',7566,3000,0,20);
insert into IT_Employee
values(7839,'KING','PRESIDENT','11/17/1981',0,5000,0,10);
insert into IT_Employee
values(7844,'TURNER','SALESMAN','09/08/1981',7698,1500,0,30);
insert into IT_Employee
values(7876,'ADAMS','CLERK','05/23/1987',7788,1100,0,20);
insert into IT_Employee
values(7900,'JAMES','CLERK','12/03/1981',7698,950,0,30);
insert into IT_Employee
values(7902,'FORD','ANALYST','12/03/1981',7566,3000,0,20);
```

```
insert into IT_Employee
values(7934,'MILLER','CLERK','01/23/1982',7782,1300,0,10);
```

- **Display all records of employee table.**

```
select * from IT_Employee
```

EMPNO	ENAME	JOB	HIREDATE	MGR	SAL	COMM	DEPTNO
7369	SMITH	CLERK	12/17/1980	7902	800	0	20
7499	ALLEN	SALESMAN	02/20/1981	7698	1600	300	30
7521	WARD	SALESMAN	02/22/1981	7698	1250	500	30
7566	JONES	MANAGER	04/02/1981	7839	2975	0	20
7654	MARTIN	SALESMAN	09/28/1981	7698	1250	1400	30
7698	BLAKE	MANAGER	05/01/1981	7839	2850	0	30
7782	CLARK	MANAGER	06/09/1981	7839	2450	0	10
7788	SCOTT	ANALYST	04/19/1987	7566	3000	0	20
7839	KING	PRESIDENT	11/17/1981	0	5000	0	10
7844	TURNER	SALESMAN	09/08/1981	7698	1500	0	30

More than 10 rows available. Increase rows selector to view more rows.

- **Change field size as 30 for employee name**

```
alter table IT_Employee
modify EName varchar2(30);
```

- **Add new column “email” of department as varchar on Department table**

```
alter table IT_Department
add Email varchar2(30);
```

- **Display all records whose employee job is not CLERK.**

```
select * from IT_Employee
where Job!='CLERK';
```

EMPNO	ENAME	JOB	HIREDATE	MGR	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	02/20/1981	7698	1600	300	30
7521	WARD	SALESMAN	02/22/1981	7698	1250	500	30
7566	JONES	MANAGER	04/02/1981	7839	2975	0	20
7654	MARTIN	SALESMAN	09/28/1981	7698	1250	1400	30
7698	BLAKE	MANAGER	05/01/1981	7839	2850	0	30
7782	CLARK	MANAGER	06/09/1981	7839	2450	0	10

7788	SCOTT	ANALYST	04/19/1987	7566	3000	0	20
7839	KING	PRESIDENT	11/17/1981	0	5000	0	10
7844	TURNER	SALESMAN	09/08/1981	7698	1500	0	30
7902	FORD	ANALYST	12/03/1981	7566	3000	0	20

- **Display all employee records whose department code is 10**

```
select * from IT_Employee
where DeptNo='10';
```

EMPNO	ENAME	JOB	HIREDATE	MGR	SAL	COMM	DEPTNO
7782	CLARK	MANAGER	06/09/1981	7839	2450	0	10
7839	KING	PRESIDENT	11/17/1981	0	5000	0	10
7934	MILLER	CLERK	01/23/1982	7782	1300	0	10

- **Display all employee name whose name started with 'S' and salary not less than 1000.**

```
select Ename
from IT_Employee
where Ename
like 'S%' and Sal>1000
```

ENAME
SCOTT

- **Retrieve department name from IT\_department whose location contains 'A' character**

```
select DName
from IT_Department
where Loc
like '%A%'
```

DNAME
RESEARCH
SALES

- **Display employee name, job and hire date whose salary between 2000 to 3000.**

```
select EName,Job,HireDate
from IT_Employee
where sal between 2000 and 3000
```

ENAME	JOB	HIREDATE
JONES	MANAGER	04/02/1981
BLAKE	MANAGER	05/01/1981
CLARK	MANAGER	06/09/1981
SCOTT	ANALYST	04/19/1987
FORD	ANALYST	12/03/1981

- **Display employee number, employee name, hiredate, department number and salary whose mgr code is 7698 or 7566**

```
select EmpNo,EName,HireDate,DeptNo,SAL
from IT_Employee
where MGR in('7698','7566');
```

EMPNO	ENAME	HIREDATE	DEPTNO	SAL
7499	ALLEN	02/20/1981	30	1600
7521	WARD	02/22/1981	30	1250
7654	MARTIN	09/28/1981	30	1250
7788	SCOTT	04/19/1987	20	3000
7844	TURNER	09/08/1981	30	1500
7900	JAMES	12/03/1981	30	950

7902      FORD      12/03/1981      20      3000

7 rows returned in 0.01 seconds

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**13. Increment the commission as 10% of salary for employee whose job is 'MANAGER'.**

update IT\_Employee

set COMM=COMM\*10/100+COMM

where Job='Manager';

**14. Delete employee information whose employee name is 'SMITH'.**

delete from IT\_Employee

where Ename='SMITH';

**15. Delete records of the table IT\_employee.**

delete from IT\_Employee