Assignment 10

1.Create the Department table with fields: Dno(Primary Key), Dname, Dloc
Insert the following values

Dno	Dname	Dloc
10	Accounts	New York
20	Research	Dallas
30	Sales	Chicago
40	Operation	Boston
50	Payroll	Dallas

create table department1_050 (Dno number(5), Dname varchar(20), Dloc varchar(20),constraint dno_06 primary key(dno));

desc department1_050;

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
desc department1_050;
```

Execute | Load Script | Save Script | Cancel

Name	Null?	Type
DNO	NOT NULL	NUMBER(5)
DNAME		VARCHAR2(20)
DLOC		VARCHAR2(20)

insert into department1_050 values(10,'Accounts','New York');

Workspace

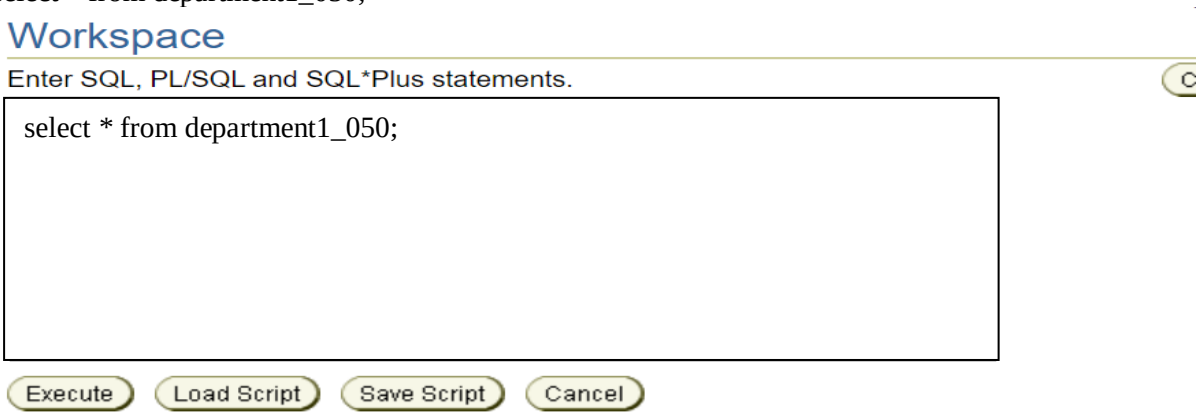
Enter SQL, PL/SQL and SQL*Plus statements.

```
insert into department1_050 values(10,'Accounts','New York');
```

Execute | Load Script | Save Script | Cancel

1 row created.

```
insert into department1_050 values(20,'Research','Dallas');
insert into department1_050 values(30,'Sales','Chicago');
insert into department1_050 values(40,'Operation','Boston');
insert into department1_050 values(50,'Payroll','Dallas');
select * from department1_050;
```

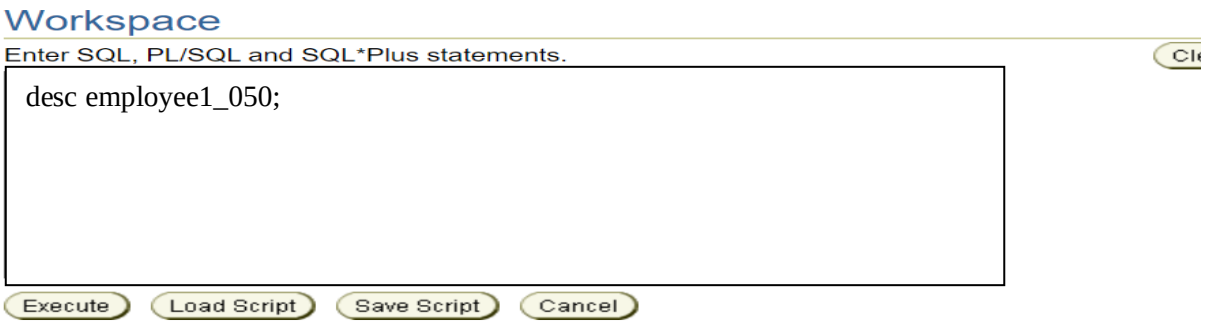


DNO	DNAME	DLOC
10	Accounts	New York
20	Research	Dallas
30	Sales	Chicago
40	Operation	Boston
50	Payroll	Dallas

2. Create the Employee table with fields: Empno(Primary Key), Ename, Salary, Commission, Deptno(Foreign Key),Mgrid
Insert the following values

Empno	Ename	Salary	Commission	Deptno	Mgrid
75	Jones	20000		20	
76	Martin	30000		30	75
77	Blake	40000	1400	30	75
78	Ford	10000		20	
79	Tummes	20000	5000	10	78

```
create table employee1_050(Empno number(5), Ename varchar(20),Salary number(10), Commission
number (10), Deptno number(5), Mgrid number(5), constraint empno_06 primary key(empno),
constraint dept_06 foreign key(Deptno) references department1_050(dno));
desc employee1_050;
```



Name	Null?	Type
EMPNO	NOT NULL	NUMBER(5)
ENAME		VARCHAR2(20)
SALARY		NUMBER(10)
COMMISSION		NUMBER(10)
DEPTNO		NUMBER(5)
MGRID		NUMBER(5)

```
insert into employee1_050 values(75,'Jones',20000,NULL,20,NULL);
insert into employee1_050 values(76,'Martin',30000,NULL,30,75);
insert employee1_050 values(77,'Blake',40000,1400,30,75);
insert employee1_050 values(78,'Ford',10000,NULL,20,NULL);
insert employee1_050 values(79,'Tummes',20000,5000,10,78);
select * from employee1_050;
```

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select * from employee1_050;
```

Execute | Load Script | Save Script | Cancel

EMPNO	ENAME	SALARY	COMMISSION	DEPTNO	MGRID
75	Jones	20000		20	
76	Martin	30000		30	75
77	Blake	40000	1400	30	75
78	Ford	10000		20	
79	Tummes	20000	5000	10	78

3. Create the SalGrade table with fields: Grade, Lowsal, Highsal
Insert the following values

Grade	Lowsal	Highsal
A	10000	19000
B	20000	29000
C	30000	50000

```
create table SalGrade_050(Grade char(1),Lowsal number(10),Highsal number(10));
desc SalGrade_050;
```

Workspace

```
desc SalGrade_050;
```

Execute | Load Script | Save Script | Cancel

Name	Null?	Type
GRADE		CHAR(1)
LOWSAL		NUMBER(10)
HIGHSAL		NUMBER(10)

```
insert into SalGrade_050 values('A',10000,19000);
insert into SalGrade_050 values('B',20000,29000);
insert into SalGrade_050 values('C',30000,50000);

select * from SalGrade_050;
```

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select * from SalGrade_050;
```

Execute | Load Script | Save Script | Cancel

GRA	LOWSAL	HIGHSAL
A	10000	19000
B	20000	29000
C	30000	50000

4. Display Empno, Salary,Deptname of employees

```
select empno,salary,dname from department1_050,employee1_050 where dno=deptno;
```

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select empno,salary,dname from department1_050,employee1_050 where
dno=deptno;
```

Execute | Load Script | Save Script | Cancel

EMPNO	SALARY	DNAME
75	20000	Research
76	30000	Sales
77	40000	Sales
78	10000	Research
79	20000	Accounts

5. Use table Alias & solve the above query again

```
select empno,salary,dname from department1_050 d,employee1_050 e where d.dno=e.deptno;
```

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select empno,salary,dname from department1_050 d, employee1_050 e where
d.dno=e.deptno;
```

Execute | Load Script | Save Script | Cancel

EMPNO	SALARY	DNAME
75	20000	Research
76	30000	Sales
77	40000	Sales
78	10000	Research
79	20000	Accounts

6. Display Empno., ename,Grade and salary that should be greater than lowsal and less than highsal

select empno,ename,grade,salary from employee1_050 e,SalGrade_050 s where salary>=Lowsal and salary<=Highsal;

Connected as I

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select empno,ename,grade,salary from employee1_050 e,SalGrade_050 s
where salary>=Lowsal and salary<=Highsal;
```

Execute | Load Script | Save Script | Cancel

EMPNO	ENAME	GRA	SALARY
78	Ford	A	10000
75	Jones	B	20000
79	Tummes	B	20000
76	Martin	C	30000
77	Blake	C	40000

7. Retrieve name of employees where employee is also a manager.

select e.ename from employee1_050 e, employee1_050 m where e.empno=m.mgrid;

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select e.ename from employee1_050 e, employee1_050 m
where e.empno=m.mgrid;
```

Execute | Load Script | Save Script | Cancel

ENAME
Jones
Jones
Ford

8. Display Empno, Ename, Dname ,Dloc of all the employees using outer join

select empno,ename,dname,dloc from employee1_050 e left join department1_050 d on e.deptno=d.dno;

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select empno,ename,dname,dloc from employee1_050 e left
join department1_050 d on e.deptno=d.dno;
```

Execute Load Script Save Script Cancel

EMPNO	ENAME	DNAME	DLOC
79	Tummes	Accounts	New York
78	Ford	Research	Dallas
75	Jones	Research	Dallas
77	Blake	Sales	Chicago
76	Martin	Sales	Chicago

9. Display Empno, Ename, Dname ,Dloc of all the departments using outer join

select empno,ename,dname,dloc from employee1_050 e right join department1_050 d on e.deptno=d.dno;

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select empno,ename,dname,dloc from employee1_050 e
right join department1_050 d on e.deptno=d.dno;
```

Execute Load Script Save Script Cancel

EMPNO	ENAME	DNAME	DLOC
79	Tummes	Accounts	New York
75	Jones	Research	Dallas
78	Ford	Research	Dallas
76	Martin	Sales	Chicago
77	Blake	Sales	Chicago
		Operation	Boston
		Payroll	Dallas

7 rows selected.

10. Retrieve employee no, employee name of all the employees along with their manager no and manager name if any

select e.empno,e.ename,m.mgrid,m.ename from employee1_050 e, employee1_050 m where e.empno=m.mgrid;

Workspace

Enter SQL, PL/SQL and SQL*Plus statements.

```
select e.empno,e.ename,m.mgrid,m.ename from
employee1_050 e, employee1_050 m where
e.empno=m.mgrid;
```

Execute Load Script Save Script Cancel

EMPNO	ENAME	MGRID	ENAME
75	Jones	75	Martin
75	Jones	75	Blake
78	Ford	78	Tummes