```
SQL> create table depositor(cus_name varchar2(25) not null, acno number(10) not null);

Table created.

SQL> create table borrower(cus_name varchar2(25) not null, loanno number(10) not null);

Table created.

SQL> insert into depositor values ('&cus_name', '&acno');
Enter value for cus_name: Nikhill
Enter value for acno: 1234
old   1: insert into depositor values ('&cus_name', '&acno')
new   1: insert into depositor values ('Nikhill', '1234')

1 row created.

SQL> insert into depositor values ('&cus_name', '&acno');
Enter value for cus_name: Annanya
Enter value for acno: 2345
old   1: insert into depositor values ('&cus_name', '&acno')
new   1: insert into depositor values ('Annanya', '2345')

1 row created.

SQL> insert into depositor values ('&cus_name', '&acno');
Enter value for cus_name: Satya
Enter value for acno: 1256
old   1: insert into depositor values ('&cus_name', '&acno')
new   1: insert into depositor values ('Satya', '1256')

1 row created.

SQL> insert into depositor values ('&cus_name', '&acno');
Enter value for cus_name: Pragya
Enter value for acno: 1928
old   1: insert into depositor values ('&cus_name', '&acno')
new   1: insert into depositor values ('Pragya', '1928')

1 row created.

SQL> insert into depositor values ('&cus_name', '&acno');
Enter value for cus_name: Yash
Enter value for acno: 2913
old   1: insert into depositor values ('&cus_name', '&acno')
new   1: insert into depositor values ('Yash', '2913')

1 row created.

SQL> insert into borrower values ('&cus_name', '&loanno');
Enter value for cus_name: Nikhill
Enter value for loanno: 2988
old   1: insert into borrower values ('&cus_name', '&loanno')
new   1: insert into borrower values ('Nikhill', '2988')

1 row created.

SQL> insert into borrower values ('&cus_name', '&loanno');
Enter value for cus_name: Yash
Enter value for loanno: 1209
old   1: insert into borrower values ('&cus_name', '&loanno')
new   1: insert into borrower values ('Yash', '1209')

1 row created.

SQL> insert into borrower values ('&cus_name', '&loanno');
Enter value for cus_name: Annanya
Enter value for loanno: 3883
old   1: insert into borrower values ('&cus_name', '&loanno')
new   1: insert into borrower values ('Annanya', '3883')

1 row created.

SQL> insert into borrower values ('&cus_name', '&loanno');
Enter value for cus_name: Karan
Enter value for loanno: 9999
old   1: insert into borrower values ('&cus_name', '&loanno')
new   1: insert into borrower values ('Karan', '9999')

1 row created.

SQL> insert into borrower values ('&cus_name', '&loanno');
Enter value for cus_name: Fateh
Enter value for loanno: 2938
old   1: insert into borrower values ('&cus_name', '&loanno')
new   1: insert into borrower values ('Fateh', '2938')
```

```
1 row created.

SQL> insert into borrower values ('&cus_name', '&loanno');
Enter value for cus_name: Kilian
Enter value for loanno: 2938
old   1: insert into borrower values ('&cus_name', '&loanno')
new   1: insert into borrower values ('Kilian', '2938')

1 row created.

SQL> insert into borrower values ('&cus_name', '&loanno');
Enter value for cus_name: Parul
Enter value for loanno: 1111
old   1: insert into borrower values ('&cus_name', '&loanno')
new   1: insert into borrower values ('Parul', '1111')

1 row created.

SQL> SELECT cus_name FROM depositor UNION SELECT cus_name FROM borrower;

CUS_NAME
-------------------------
Annanya
Fateh
Karan
Kilian
Nikhill
Parul
Pragya
Satya
Yash

9 rows selected.

SQL> SELECT cus_name FROM depositor UNION ALL SELECT cus_name FROM borrower;

CUS_NAME
-------------------------
Nikhill
Annanya
Satya
Pragya
Yash
Nikhill
Yash
Annanya
Karan
Fateh
Kilian

CUS_NAME
-------------------------
Parul

12 rows selected.

SQL> SELECT cus_name FROM depositor INTERSECT SELECT cus_name FROM borrower;

CUS_NAME
-------------------------
Annanya
Nikhill
Yash

SQL> SELECT cus_name FROM borrower MINUS SELECT cus_name FROM depositor;

CUS_NAME
-------------------------
Fateh
Karan
Kilian
Parul

SQL> create table employee(empno number(3) not null, empname varchar2(25) not null, job varchar2(15),
deptno number(4), salary number(7));

Table created.

SQL> create table dept(deptname varchar2(25) not null, deptno number(4));

Table created.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 1
```

```
Enter value for ename: Nikhill
Enter value for job: AS
Enter value for deptno: 3
Enter value for salary: 100
old   1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new   1: insert into employee values ('1', 'Nikhill', 'AS', '3', '100')

1 row created.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 2
Enter value for ename: Annanya
Enter value for job: PS
Enter value for deptno: 2
Enter value for salary: 200
old   1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new   1: insert into employee values ('2', 'Annanya', 'PS', '2', '200')

1 row created.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 3
Enter value for ename: Sanah
Enter value for job: AS
Enter value for deptno: 3
Enter value for salary: 900
old   1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new   1: insert into employee values ('3', 'Sanah', 'AS', '3', '900')

1 row created.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 4
Enter value for ename: Karan
Enter value for job: PS
Enter value for deptno: 1
Enter value for salary: 230
old   1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new   1: insert into employee values ('4', 'Karan', 'PS', '1', '230')

1 row created.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 5
Enter value for ename: Kylian
Enter value for job: LECT
Enter value for deptno: 2
Enter value for salary: 800
old   1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new   1: insert into employee values ('5', 'Kylian', 'LECT', '2', '800')

1 row created.

SQL> insert into dept values ('&DEPTNAME', '&DEPTNO');
Enter value for deptname: CSE
Enter value for deptno: 1
old   1: insert into dept values ('&DEPTNAME', '&DEPTNO')
new   1: insert into dept values ('CSE', '1')

1 row created.

SQL> insert into dept values ('&DEPTNAME', '&DEPTNO');
Enter value for deptname: NWC
Enter value for deptno: 2
old   1: insert into dept values ('&DEPTNAME', '&DEPTNO')
new   1: insert into dept values ('NWC', '2')

1 row created.

SQL> insert into dept values ('&DEPTNAME', '&DEPTNO');
Enter value for deptname: IT
Enter value for deptno: 3
old   1: insert into dept values ('&DEPTNAME', '&DEPTNO')
new   1: insert into dept values ('IT', '3')

1 row created.

SQL> insert into dept values ('&DEPTNAME', '&DEPTNO');
Enter value for deptname: CINTEL
Enter value for deptno: 4
old   1: insert into dept values ('&DEPTNAME', '&DEPTNO')
new   1: insert into dept values ('CINTEL', '4')

1 row created.
```

```
SQL> insert into dept values ('&DEPTNAME', '&DEPTNO');
Enter value for deptname: EEE
Enter value for deptno: 5
old   1: insert into dept values ('&DEPTNAME', '&DEPTNO')
new   1: insert into dept values ('EEE', '5')

1 row created.

SQL> select employee.empno, employee.empname, employee.deptno from employee inner join dept on
employee.deptno=dept.deptno;

     EMPNO EMPNAME                        DEPTNO
---------- ------------------------- ----------
         4 Karan                              1
         2 Annanya                            2
         5 Kylian                             2
         1 Nikhill                            3
         3 Sanah                              3

SQL> create table salgrade(grade number(2), losal number(10), hisal number(10));

Table created.

SQL> insert into salgrade values(&grade, &losal, &hisal);
Enter value for grade: 1
Enter value for losal: 700
Enter value for hisal: 1400
old   1: insert into salgrade values(&grade, &losal, &hisal)
new   1: insert into salgrade values(1, 700, 1400)

1 row created.

SQL> insert into salgrade values(&grade, &losal, &hisal);
Enter value for grade: 2
Enter value for losal: 1401
Enter value for hisal: 2000
old   1: insert into salgrade values(&grade, &losal, &hisal)
new   1: insert into salgrade values(2, 1401, 2000)

1 row created.

SQL> insert into salgrade values(&grade, &losal, &hisal);
Enter value for grade: 3
Enter value for losal: 2001
Enter value for hisal: 5000
old   1: insert into salgrade values(&grade, &losal, &hisal)
new   1: insert into salgrade values(3, 2001, 5000)

1 row created.

SQL> insert into salgrade values(&grade, &losal, &hisal);
Enter value for grade: 4
Enter value for losal: 5001
Enter value for hisal: 9999
old   1: insert into salgrade values(&grade, &losal, &hisal)
new   1: insert into salgrade values(4, 5001, 9999)

1 row created.

SQL> select * from employee;

     EMPNO EMPNAME                   JOB                DEPTNO     SALARY
---------- ------------------------- --------------- ---------- ----------
         1 Nikhill                   AS                       3        100
         2 Annanya                   PS                       2        200
         3 Sanah                     AS                       3        900
         4 Karan                     PS                       1        230
         5 Kylian                    LECT                     2        800

SQL> update employee set salary=1600 where empname='Nikhill';

1 row updated.

SQL> update employee set salary=2500 where empname='Annanya';

1 row updated.

SQL> update employee set salary=8500 where empname='Karan';

1 row updated.

SQL> select employee.empname, employee.salary, salgrade.grade from employee inner join salgrade on
employee.salary between salgrade.losal and salgrade.hisal;

EMPNAME                      SALARY      GRADE
```

```
------------------------ ---------- ----------
Kylian                          800          1
Sanah                           900          1
Nikhill                        1600          2
Annanya                        2500          3
Karan                          8500          4

SQL> select employee.empname, employee.deptno, dept.deptname from employee left join dept on
employee.deptno=dept.deptno;

EMPNAME                      DEPTNO DEPTNAME
------------------------ ---------- -------------------------
Karan                             1 CSE
Annanya                           2 NWC
Kylian                            2 NWC
Nikhill                           3 IT
Sanah                             3 IT

SQL> select employee.empname, dept.deptno, dept.deptname from employee right join dept on
employee.deptno=dept.deptno;

EMPNAME                      DEPTNO DEPTNAME
------------------------ ---------- -------------------------
Nikhill                           3 IT
Annanya                           2 NWC
Sanah                             3 IT
Karan                             1 CSE
Kylian                            2 NWC
                                  4 CINTEL
                                  5 EEE

7 rows selected.

SQL> alter table employee add manager varchar2(30);

Table altered.

SQL> update employee set manager='Harish' where empname='Nikhill';

1 row updated.

SQL> update employee set manager='Raja' where empname='Karan';

1 row updated.

SQL> update employee set manager='Jindal' where empname='Annanya';

1 row updated.

SQL> select * from employee;

     EMPNO EMPNAME                    JOB                DEPTNO     SALARY
---------- ------------------------- --------------- ---------- ----------
MANAGER
------------------------------
         1 Nikhill                   AS                      3       1600
Harish

         2 Annanya                   PS                      2       2500
Jindal

         3 Sanah                     AS                      3        900


     EMPNO EMPNAME                    JOB                DEPTNO     SALARY
---------- ------------------------- --------------- ---------- ----------
MANAGER
------------------------------
         4 Karan                     PS                      1       8500
Raja

         5 Kylian                    LECT                    2        800


SQL> update employee set manager='Yash' where empname='Sanah';

1 row updated.

SQL> update employee set manager='Nick' where empname='Kylian';

1 row updated.

SQL> select * from employee;
```

```
     EMPNO EMPNAME                    JOB                DEPTNO     SALARY
---------- ------------------------- --------------- ---------- ----------
MANAGER
------------------------------
         1 Nikhill                   AS                      3       1600
Harish

         2 Annanya                   PS                      2       2500
Jindal

         3 Sanah                     AS                      3        900
Yash


     EMPNO EMPNAME                    JOB                DEPTNO     SALARY
---------- ------------------------- --------------- ---------- ----------
MANAGER
------------------------------
         4 Karan                     PS                      1       8500
Raja

         5 Kylian                    LECT                    2        800
Nick


SQL> select employee.empname, employee.manager from employee self join employee on
employee.manager=employee.manager;

EMPNAME                  MANAGER
------------------------ ------------------------------
Nikhill                  Harish
Annanya                  Jindal
Sanah                    Yash
Karan                    Raja
Kylian                   Nick

5 rows selected.
```