Assignment no.2

1. Create following Tables
cust_mstr (cust_no,fname,lname)
add_dets (code_no,add1,add2,state,city,pincode)
Query: Retrieve the address of customer Fname as 'xyz' and Lname as 'pqr'

```
SQL> create table cust_mstr(cust_no int primary key,
  2                          fname varchar(255),
  3                          lname varchar(255));

Table created.

SQL> insert into cust_mstr values(1,'anjali','auti');

1 row created.

SQL> insert into cust_mstr values(2,'anushka','patil');

1 row created.

SQL> insert into cust_mstr values(3 ,'xyz','pqr');

1 row created.

SQL> insert into cust_mstr values(4,'poonam','kadam');

1 row created.

SQL> insert into cust_mstr values(5,'abc','ght');

1 row created.

SQL> column lname format a10;
SQL> select * from cust_mstr;

   CUST_NO FNAME      LNAME
---------- ---------- ----------
         1 anjali     auti
         2 anushka    patil
         3 xyz        pqr
         4 poonam     kadam
         5 abc        ght

SQL> create table add_dets(code_no int primary key,
  2                     cust_no int,
  3                     add1 varchar(255),
  4                     add2 varchar(255),
  5                     state varchar(255),
  6                     city varchar(255),
  7                     pincode int,
  8                     foreign key (cust_no) references cust_mstr(cust_no));

Table created.
```

```
SQL> insert into add_dets values(111,1,'moshi','parner','maharashtra','pune',412105);

1 row created.

SQL> insert into add_dets values(112,2,'buldhana','pune','maharashtra','pune',411105);

1 row created.

SQL> insert into add_dets values(113,3,'latur','pune','maharashtra','pune',417821);

1 row created.

SQL> insert into add_dets values(114,4,'sangli','satara','maharashtra','sangli',488921);

1 row created.
```

```
SQL> select * from add_dets;

  CODE_NO ADD1       ADD2       STATE      CITY          PINCODE
---------- ---------- ---------- ---------- ---------- ----------
        1 moshi      parner     maharashtr pune           412105
                                a

        2 buldhana   pune       maharashtr pune           411105
                                a

        3 latur      pune       maharashtr pune           417821
                                a

        4 sangli     satara     maharashtr sangli         488921
                                a

  CODE_NO ADD1       ADD2       STATE      CITY          PINCODE
---------- ---------- ---------- ---------- ---------- ----------

SQL> select
  2            cust_mstr.fname,
  3            cust_mstr.lname,
  4            add_dets.add1,
  5            add_dets.add2,
  6            add_dets.state,
  7            add_dets.city,
  8            add_dets.pincode
  9  from
 10       cust_mstr
 11  inner join
 12       add_dets on cust_mstr.cust_no = add_dets.code_no
 13  where
 14       cust_mstr.fname='xyz' and cust_mstr.lname='pqr';

FNAME      LNAME      ADD1       ADD2       STATE      CITY          PINCODE
---------- ---------- ---------- ---------- ---------- ---------- ----------
xyz        pqr        latur      pune       maharashtr pune           417821
                                            a
```

2.Create following Tables
cust_mstr(custno,fname,lname)
acc_fd_cust_dets(codeno,acc_fd_no)
fd_dets(fd_sr_no,amt)
Query: List the customer holding fixed deposit of amount more than 50000

```
SQL> select * from cust_mstr;

  CUST_NO FNAME      LNAME
---------- ---------- ----------
        1 anjali     auti
        2 anushka    patil
        3 xyz        pqr
        4 poonam     kadam
        5 abc        ght

SQL> select * from acc_fd_cust_dets;

 ACC_FD_NO    CODE_NO
---------- ----------
        2          1
        3          2
        1          3
        5          4

SQL> select * from fd_dets;

  FD_SR_NO        AMT
---------- ----------
        1      25000
        2      50000
        3     100000
        4     125000
        5     150000
```

```
SQL> select
  2           cust_mstr.fname,
  3           cust_mstr.lname,
  4           acc_fd_cust_dets.acc_fd_no,
  5           fd_dets.amt
  6   from
  7           cust_mstr
  8   join
  9           acc_fd_cust_dets on cust_mstr.cust_no = acc_fd_cust_dets.code_no
 10   join
 11           fd_dets on fd_dets.fd_sr_no =  acc_fd_cust_dets.acc_fd_no
 12   where
 13           fd_dets.amt>=50000;

FNAME       LNAME       ACC_FD_NO        AMT
----------  ----------  ----------  ----------
anjali      auti                 2       50000
anushka     patil                3      100000
poonam      kadam                5      150000


SQL>
```

3. Create following Tables

emp_mstr(e_mpno,f_name,l_name,m_name,dept,desg,branch_no)

branch_mstr(name,b_no)

Query: List the employee details along with branch names to which they belong

```
SQL> create table emp_mstr(e_mpno int primary key,
  2                         f_name varchar(255),
  3                         l_name varchar(255),
  4                         m_name varchar(255),
  5                         dept varchar(255),
  6                         desg varchar(255),
  7                         branch_no int);

Table created.

SQL> create table branch_mstr(name varchar(255),
  2                           b_no int primary key);

Table created.
```

```
SQL> select * from emp_mstr;
```

E_MPNO	F_NAME	L_NAME	M_NAME	DEPT	DESG	BRANCH_NO
1	anjali	auti	sampat	finance	manager	121
2	sneha	shinde	raju	audit	engineer	122
3	pragati	kulkarni	shesherao	marketing	project ma nager	123
4	sakshi	gaikwad	sachin	production	senior man ager	124

```
SQL> select * from branch_mstr;

NAME            B_NO
----------  ----------
moshi            121
bhosari          122
nigdi            123
akurdi           124
```

```
SQL> select
  2            emp_mstr.e_mpno,
  3            emp_mstr.f_name,
  4            emp_mstr.l_name,
  5            emp_mstr.m_name,
  6            emp_mstr.dept,
  7            emp_mstr.desg,
  8            branch_mstr.name
  9  from
 10            emp_mstr
 11  inner join
 12            branch_mstr on emp_mstr.branch_no = branch_mstr.b_no;

    E_MPNO F_NAME      L_NAME      M_NAME      DEPT        DESG         NAME
---------- ----------  ----------  ----------  ----------  ----------   ----------
         1 anjali      auti        sampat      finance     manager      moshi
         2 sneha       shinde      raju        audit       engineer     bhosari
         3 pragati     kulkarni    shesherao   marketing   project ma   nigdi
                                                           nager

         4 sakshi      gaikwad     sachin      production  senior man   akurdi
                                                           ager


SQL>
```

4. Create following Tables

emp_mstr(emp_no,f_name,l_name,m_name,dept)

cntc_dets(code_no,cntc_type,cntc_data)

Query: List the employee details along with contact details using left outer join & right join

```
SQL> create table cntc_dets(code_no int primary key,
  2                          cntc_type varchar(255),
  3                          cntc_data int);

Table created.
```

```
SQL> select * from emp_mstr;
    E_MPNO F_NAME      L_NAME      M_NAME      DEPT        DESG         BRANCH_NO
---------- ----------  ----------  ----------  ----------  ----------   ----------
         1 anjali      auti        sampat      finance     manager            121
         2 sneha       shinde      raju        audit       engineer           122
         3 pragati     kulkarni    shesherao   marketing   project ma         123
                                                           nager

         4 sakshi      gaikwad     sachin      production  senior man         124
                                                           ager

         5 geeta       patil       anish       audit       worker             122
         6 atish       shinde      kalu        product     manager            121
6 rows selected.

SQL> select * from cntc_dets;
   CODE_NO CNTC_TYPE    CNTC_DATA
---------- ----------  ----------
         1 mobile no   8923456721
         2 mobile      9034563287
         3 mobile      9167219844
         4 mobile      9772134230

SQL>
```

```
SQL> select
  2              emp_mstr.e_mpno,
  3              emp_mstr.f_name,
  4              emp_mstr.l_name,
  5              emp_mstr.dept,
  6              cntc_dets.cntc_type,
  7              cntc_dets.cntc_data
  8  from
  9              emp_mstr
 10  left join
 11              cntc_dets on emp_mstr.e_mpno = cntc_dets.code_no;

   E_MPNO F_NAME      L_NAME       DEPT         CNTC_TYPE   CNTC_DATA
--------- ---------- ----------- ----------- ----------- -----------
        1 anjali     auti         finance      mobile no   8923456721
        2 sneha      shinde       audit        mobile      9034563287
        3 pragati    kulkarni     marketing    mobile      9167219844
        4 sakshi     gaikwad      production   mobile      9772134230
        6 atish      shinde       product
        5 geeta      patil        audit

6 rows selected.
```

```
SQL> select
  2              emp_mstr.e_mpno,
  3              emp_mstr.f_name,
  4              emp_mstr.l_name,
  5              emp_mstr.dept,
  6              cntc_dets.cntc_type,
  7              cntc_dets.cntc_data
  8  from
  9              emp_mstr
 10  right join
 11              cntc_dets on emp_mstr.e_mpno = cntc_dets.code_no;

   E_MPNO F_NAME      L_NAME       DEPT         CNTC_TYPE   CNTC_DATA
--------- ---------- ----------- ----------- ----------- -----------
        1 anjali     auti         finance      mobile no   8923456721
        2 sneha      shinde       audit        mobile      9034563287
        3 pragati    kulkarni     marketing    mobile      9167219844
        4 sakshi     gaikwad      production   mobile      9772134230
```

5. Create following Tables

cust_mstr(cust_no,fname,lname)

add_dets(code_no,pincode)

Query: List the customer who do not have bank branches in their vicinity.

```
SQL> create table cust_mstr(cust_no int primary key,
  2                      fname varchar(255),
  3                      lname varchar(255));

Table created.

SQL> create table add_dets(code_no int,
  2
SQL> create table add_dets(code_no int primary key,
  2                  pincode int);

Table created.
```

```
SQL> select * from cust_mstr;

   CUST_NO FNAME       LNAME
---------- ---------- ----------
         1 anjali      auti
         2 sneha       shinde
         3 sakshi      gaikwad
         4 pragati     kulkarni
         5 mayuri      yadav
         6 gayatri     shinde

6 rows selected.
SQL> select * from add_dets;

   CODE_NO    PINCODE
---------- ----------
         1     412105
         3     418965
         5     489215
-
SQL> select
  2              cust_mstr.cust_no,
  3              cust_mstr.fname,
  4              cust_mstr.lname
  5  from
  6              cust_mstr
  7  left join
  8              add_dets on add_dets.code_no = cust_mstr.cust_no
  9  where
 10              add_dets.code_no is null;

   CUST_NO FNAME       LNAME
---------- ---------- ----------
         2 sneha       shinde
         4 pragati     kulkarni
         6 gayatri     shinde
```

6. Queries on Views

a) Create View on borrower table by selecting any two columns and perform insert
update delete
operations

b) Create view on borrower and depositor table by selecting any one column from each
table
perform insert update delete operations

c) create updateable view on borrower table by selecting any two columns and perform
insert
update delete operations.

6.1

```
SQL> select * from borrower;

     ACCNO     AMOUNT    LOAN_NO
---------- ---------- ----------
    123401      23000          1
    123402     500000          2
    123403     120000          3
    123404      10000          4
```

```
SQL> create view details as select accno,loan_no from borrower ;

View created.

SQL> select * from details;

    ACCNO     LOAN_NO
---------- ----------
    123401          1
    123402          2
    123403          3
    123404          4

SQL> insert into details values(123405,5);

1 row created.

SQL> insert into details values(123406,6);

1 row created.

SQL> insert into details values(123407,10);

1 row created.

SQL> select * from details;

    ACCNO     LOAN_NO
---------- ----------
    123401          1
    123402          2
    123403          3
    123404          4
    123405          5
    123406          6
    123407         10

7 rows selected.

SQL> update details set loan_no=3 where accno=123403;

1 row updated.

SQL> update details set loan_no=12 where accno=123403;

1 row updated.

SQL> select * from details;

    ACCNO     LOAN_NO
---------- ----------
    123401          1
    123402          2
    123403         12
    123404          4
    123405          5
    123406          6
    123407         10

7 rows selected.

SQL> delete from details where accno=123405;

1 row deleted.
```

```
SQL> select * from details;

     ACCNO      LOAN_NO
---------- ----------
    123401          1
    123402          2
    123403         12
    123404          4
    123406          6
    123407         10

6 rows selected.
```

6.2

```
SQL> select * from depositor;

CUST_NAME      ACC_NO
---------- ----------
anjali        123401
sneha         123402
pragati       123403
sakshi        123404
```

```
SQL> select * from borrower;

     ACCNO     AMOUNT    LOAN_NO
---------- ---------- ----------
    123401      23000          1
    123402     500000          2
    123403     120000         12
    123404      10000          4
```

```
SQL> create view loan_dets as select depositor.cust_name,borrower.loan_no from depo
sitor,borrower where depositor.acc_no = borrower.accno;

View created.

SQL> select * from loan_dets;

CUST_NAME      LOAN_NO
---------- ----------
anjali              1
sneha               2
pragati            12
sakshi              4

SQL>
```

```
SQL> update  loan_dets set loan_no =7 where cust_name='sakshi';
1 row updated.
SQL> select * from loan_dets;
CUST_NAME      LOAN_NO
---------- ----------
anjali              1
sneha               2
pragati            12
sakshi              7
SQL> delete from loan_dets where loan_no=7;
1 row deleted.
SQL> select * from loan_dets;
CUST_NAME      LOAN_NO
---------- ----------
anjali              1
sneha               2
pragati            12
```

6.3

```
SQL> create  view  det as select accno,loan_no from borrower with check option ;

View created.

SQL> select * from det;

     ACCNO      LOAN_NO
---------- ----------
    123401          1
    123402          2
    123403         12
    123404          7

SQL> insert into det values(123405,6);

1 row created.

SQL> select * from det;

     ACCNO      LOAN_NO
---------- ----------
    123401          1
    123402          2
    123403         12
    123404          7
    123405          6

SQL> update det set loan_no=23 where accno=123405;

1 row updated.

SQL> select * from det;

     ACCNO      LOAN_NO
---------- ----------
    123401          1
    123402          2
    123403         12
    123404          7
    123405         23
```

```
SQL> delete from det where loan_no=12;

1 row deleted.

SQL> select * from det;

     ACCNO      LOAN_NO
---------- ----------
    123401          1
    123402          2
    123404          7
    123405         23
```