Assignment 3

1. Create following Tables

```
SQL> create table cust_mstr(cust_no int primary key,lname char(20));
Table created.

SQL> alter table cust_mstr add fname varchar(20);
Table altered.

SQL> create table add_dets(code_no int references cust_mstr(cust_no),add1 varchar(20),
add2 varchar(20),state varchar(15),city varchar(15),pincode int);
Table created.

SQL> describe  cust_mstr;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CUST_NO                                   NOT NULL NUMBER(38)
 LNAME                                              VARCHAR(20)
 FNAME                                              VARCHAR(20)
SQL> describe  add_dets;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CODE_NO                                            NUMBER(38)
 ADD1                                               VARCHAR(20)
 ADD2                                               VARCHAR(20)
 STATE                                              VARCHAR(15)
 CITY                                               VARCHAR(15)
 PINCODE                                            NUMBER(38)

SQL> insert into cust_mstr values(211,'pqr','xyz');
1 row created.

SQL> insert into add_dets values(211,'Nigdi','Pimpri','Maharashta','Pune',440022);
1 row created.

SQL> select * from cust_mstr inner join add_dets on cust_mstr.fname='xyz' and
cust_mstr.lname='pqr';

   CUST_NO LNAME              FNAME              CODE_NO         ADD1              ADD2
STATE          CITY    PINCODE
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```

211 pqr xyz 211 Nigdi Pimpri Maharashta Pune 440022

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2.Create following Tables

```
SQL> create table cust_mstr(custno int primary key,fname char(20), lname char(20));
Table created.

SQL> create table fd_dets(fd_sr_no int primary key,amt int );
Table created.
SQL> create table acc_fd_cust_dets(codeno int references cust_mstr(custno),acc_fd_no int
references fd_dets(fd_sr_no));
Table created.

SQL> describe cust_mstr;
 Name                          Null?    Type
 ----------------------------------------- -------- ----------------------------
 CUSTNO                        NOT NULL NUMBER(38)
 FNAME                                  VARCHAR(20)
 LNAME                                  VARCHAR(20)

SQL> describe fd_dets;
 Name                          Null?    Type
 ----------------------------------------- -------- ----------------------------
 FD_SR_NO                      NOT NULL NUMBER(38)
 AMT                                    NUMBER(38)

SQL> describe acc_fd_cust_dets;
 Name                          Null?    Type
 ----------------------------------------- -------- ----------------------------
 CODENO                                 NUMBER(38)
 ACC_FD_NO                              NUMBER(38)

SQL> insert into cust_mstr values(1,'Rohit','Raut');
1 row created.

SQL> insert into cust_mstr values(2,'Ritesh','Rathod');
1 row created.

SQL> insert into cust_mstr values(3,'Shantanu','Rankhm');
1 row created.

SQL> insert into fd_dets values(101,75000);
```

1 row created.

SQL> insert into fd_dets values(102,7000);
1 row created.

SQL> insert into fd_dets values(103,1000);
1 row created.

SQL> insert into acc_fd_cust_dets values(1,103);
1 row created.

SQL> insert into acc_fd_cust_dets values(2,101);
1 row created

SQL> insert into acc_fd_cust_dets values(3,102);
1 row created.

SQL> select * from cust_mstr inner join acc_fd_cust_dets on acc_fd_cust_dets.codeno=cust_mstr.custno inner join fd_dets on fd_dets.fd_sr_no=acc_fd_cust_dets.acc_fd_no where amt>5000;

CUSTNO	FNAME	LNAME	CODENO	ACC_FD_NO	FD_SR_NO	AMT
2	Ritesh	Rathod	2	101	101	75000
3	Shantanu	Rankhm	3	102	102	7000

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3. Create following Tables

SQL> create table branch_mstr(name varchar(20),b_no int primary key);

Table created.

SQL> create table emp_mstr(e_mpno int primary key, f_name varchar(20), l_name varchar(20), m_name varchar(20), dept varchar(20), desg varchar(20), branch_no int references branch_mstr(b_no));

Table created.
SQL> describe branch_mstr;

Name	Null?	Type
NAME		VARCHAR(20)

```
 B_NO                                      NOT NULL NUMBER(38)

SQL> describe emp_mstr;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 E_MPNO                                    NOT NULL NUMBER(38)
 F_NAME                                             VARCHAR(20)
 L_NAME                                             VARCHAR(20)
 M_NAME                                             VARCHAR(20)
 DEPT                                               VARCHAR(20)
 DESG                                               VARCHAR(20)
 BRANCH_NO                                          NUMBER(38)


SQL> insert into branch_mstr values('Akurdi',1);

1 row created.

SQL> insert into branch_mstr values('Nigdi',2);

1 row created.

SQL> insert into branch_mstr values('Pimpri',3);

1 row created.

SQL> insert into emp_mstr values(101,'Rohit','Raut','N','CS','Student',2);

1 row created.

SQL> insert into emp_mstr values(202,'Om','Ojha','R','EnTC','Student',1);

1 row created.

SQL> insert into emp_mstr values(303,'Yash','Jha','R','Mech','Student',3);

1 row created.

SQL> insert into emp_mstr values(404,'Jay','Singh','G','Civil','Student',1);

1 row created.

SQL> insert into emp_mstr values(505,'Tarun','Rathod','A','IT','Student',3);

1 row created.
```

SQL> select * from emp_mstr inner join branch_mstr on
emp_mstr.branch_no=branch_mstr.b_no;

```
   E_MPNO F_NAME            L_NAME            M_NAME
---------- -------------------- -------------------- --------------------
DEPT               DESG               BRANCH_NO NAME
-------------------- -------------------- ---------- --------------------
     B_NO
----------
      101 Rohit              Raut              N
CS                 Student                   2 Nigdi
       2

      202 Om                 Ojha              R
EnTC               Student                   1 Akurdi
       1

   E_MPNO F_NAME            L_NAME            M_NAME
---------- -------------------- -------------------- --------------------
DEPT               DESG               BRANCH_NO NAME
-------------------- -------------------- ---------- --------------------
     B_NO
----------

      303 Yash               Jha               R
Mech               Student                   3 Pimpri
       3

      404 Jay                Singh             G
Civil              Student                   1 Akurdi

   E_MPNO F_NAME            L_NAME            M_NAME
---------- -------------------- -------------------- --------------------
DEPT               DESG               BRANCH_NO NAME
-------------------- -------------------- ---------- --------------------
     B_NO
----------
       1
```

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4. Create following Tables

```
SQL> create table emp_mstr(emp_no int primary key, f_name varchar(20) ,l_name
varchar(20), m_name varchar(20), dept varchar(20));

Table created.

SQL> create table cntc_dets(code_no int references emp_mstr(emp_no),cntc_type
varchar(20) ,cntc_data int);

Table created.

SQL> describe emp_mstr;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 EMP_NO                                    NOT NULL NUMBER(38)
 F_NAME                                             VARCHAR(20)
 L_NAME                                             VARCHAR(20)
 M_NAME                                             VARCHAR(20)
 DEPT                                               VARCHAR(20)

SQL> describe cntc_dets;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CODE_NO                                            NUMBER(38)
 CNTC_TYPE                                          VARCHAR(20)
 CNTC_DATA                                          NUMBER(38)


SQL> select * from emp_mstr left join cntc_dets on emp_mstr.emp_no=cntc_dets.code_no;

   EMP_NO F_NAME               L_NAME               M_NAME           DEPT                 CODE_NO
CNTC_TYPE            CNTC_DATA
---------- -------------------- -------------------- --------------------  ------------------------------
------- ------------------------
       101 p                    q                    r                    CE                   101
Student              122333

       102 x                    y                    z                    IT                   102
Teacher              231322

       103 a                    b                    b                    AI                   103
Student              999999

       104 l                    m                    n                    ME                   104
Student              678909
```

5. Create following Tables.

SQL> create table cust_mst(cust_no int primary key, fname varchar(20), lname varchar(20));

Table created.

SQL> create table add_dets(code_no int references cust_mst(cust_no), pincode int);

Table created.

SQL> describe cust_mst;

Name	Null?	Type
CUST_NO	NOT NULL	NUMBER(38)
FNAME		VARCHAR(20)
LNAME		VARCHAR(20)

SQL> describe add_dets;

Name	Null?	Type
CODE_NO		NUMBER(38)
PINCODE		NUMBER(38)

SQL> select * from cust_mst where cust_no in(select cust_no from cust_mst minus select code_no from add_dets);

CUST_NO	FNAME	LNAME
20	x	y
40	e	f

SQL> select * from cust_mst inner join add_dets on cust_no in(select cust_no from cust_mst minus select code_no from add_dets);

CUST_NO	FNAME	LNAME	CODE_NO	PINCODE
20	x	y	10	112200
40	e	f	10	112200
20	x	y	30	223200
40	e	f	30	223200

SQL> describe Loan;

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LOAN_NO                                   NOT NULL NUMBER(38)
 BRANCH_NAME                                        VARCHAR2(20)
 AMOUNT                                             NUMBER(38)
```

```
SQL> select * from borrower;

CUST_NAME            LOAN_NO
-------------------- ----------
ABC                   2
XYZ                   1
PQR                   3
KLM                   4
```

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

```
SQL> create view Table1 as
   select loan_no from Borrower;

View created.

SQL> select * from Table1;

  LOAN_NO
----------
       2
       1
       3
       4

SQL> delete from Table1 where loan_no=1;

1 row deleted.

SQL> select * from Table1;

  LOAN_NO
----------
       2
       3
       4

SQL> b) select * from Depositor;
```

```
SQL> select * from Depositor;

CUST_NAME            ACC_NO
-------------------- ----------
ABC                   102
XYZ                   101
PQR                   103
KLM                   104
```

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

```
SQL> create view Table2 as
  select b.loan_no, d.cust_name from Borrower b, Depositor d where
b.cust_name=d.cust_name;

View created.

SQL> select * from Table2;

  LOAN_NO CUST_NAME
---------- --------------------
         2 ABC
         3 PQR
         4 KLM
```