Assignment 3:

1. Create following Tables

cust\_mstr(cust\_no,fname,lname)

add\_dets(code\_no,add1,add2,state,city,pincode)

SQL> create table cust\_mstr(

cust\_no number NOT NULL,

fname varchar(10) NOT NULL,

lname varchar(10) NOT NULL,

constraint cust\_mstr\_pk PRIMARY KEY(cust\_no)

);

Table created.

SQL> create table add\_dets(

code\_no number NOT NULL,

add1 varchar(10) NOT NULL,

add2 varchar(10) NOT NULL,

state varchar(10) NOT NULL,

city varchar(10) NOT NULL,

pincode number NOT NULL,

constraint fk\_add\_dets FOREIGN KEY(code\_no) references cust\_mstr(cust\_no)

);

Table created.

SQL> insert into cust\_mstr values(1001, 'Nikhil', 'Lakare');

1 row created.

SQL> insert into cust\_mstr values(1002, 'Pranav', 'More');

1 row created.

SQL> insert into cust\_mstr values(1003, 'Aniket', 'Mohite');

1 row created.

SQL> insert into cust\_mstr values(1004, 'Darshan', 'Labhade');

1 row created.

SQL> select \* from cust\_mstr;

CUST\_NO FNAME LNAME

---------- ---------- ----------

1001 Nikhil Lakare

1002 Pranav More

1003 Aniket Mohite

1004 Darshan Labhade

SQL> insert into add\_dets values(1001, 'Nigdi', 'Pradhi', 'MAH', 'Pune', 411044);

1 row created.

SQL> insert into add\_dets values(1002, 'Chinchwad', 'Chinchwad', 'MAH', 'Pune', 411044);

1 row created.

SQL> insert into add\_dets values(1003, 'Bhosari', 'Bhosari', 'MAH', 'Pune', 411044);

1 row created.

SQL> insert into add\_dets values(1004, 'LinkRoad', 'Chinchwad', 'MAH', 'Pune', 411044);

1 row created.

SQL> select \* from add\_dets;

CODE\_NO ADD1 ADD2 STATE CITY PINCODE

---------- ---------- ---------- ---------- ---------- ----------

1001 Nigdi Pradhi MAH Pune 411044

1002 Chinchwad Chinchwad MAH Pune 411045

1003 Bhosari Bhosari MAH Pune 411246

1004 LinkRoad Chinchwad MAH Pune 411047

--------------------------------------------------------------------------------------------------------------------------------------

Q. Retrieve the address of customer Fname as 'xyz' and Lname as 'pqr'

SQL> select fname as xyz, lname as pqr, add1, city from cust\_mstr, add\_dets

where cust\_no = code\_no;

XYZ PQR ADD1 CITY

---------- ---------- ---------- ----------

Nikhil Lakare Nigdi Pune

Pranav More Chinchwad Pune

Aniket Mohite Bhosari Pune

Darshan Labhade LinkRoad Pune

--------------------------------------------------------------------------------------------------------------------------------------

2.Create following Tables

acc\_fd\_cust\_dets(codeno,acc\_fd\_no)

fd\_dets(fd\_sr\_no,amt)

SQL>create table acc\_fd\_cust\_dets(

code\_no number NOT NULL,

ac\_fd\_no number NOT NULL,

constraint acc\_fd\_cust\_dets\_pk PRIMARY KEY(ac\_fd\_no),

constraint fk\_acc\_fd\_cust\_dets FOREIGN KEY(code\_no) references cust\_mstr(cust\_no)

);

Table created.

SQL>create table fd\_dets(

fd\_sr\_no number NOT NULL,

amt number NOT NULL,

constraint fk\_fd\_dets FOREIGN KEY(fd\_sr\_no) references acc\_fd\_cust\_dets(ac\_fd\_no)

);

Table created.

SQL> insert into acc\_fd\_cust\_dets values(1001, 2001);

1 row created.

SQL> insert into acc\_fd\_cust\_dets values(1002, 2002);

1 row created.

SQL> insert into acc\_fd\_cust\_dets values(1003, 2003);

1 row created.

SQL>select \* from acc\_fd\_cust\_dets;

CODE\_NO AC\_FD\_NO

---------- ----------

1001 2001

1002 2002

1003 2003

SQL> insert into fd\_dets values(2001, 10000);

1 row created.

SQL> insert into fd\_dets values(2002, 4000);

1 row created.

SQL> insert into fd\_dets values(2003, 8000)

1 row created.

SQL> select \* from fd\_dets;

FD\_SR\_NO AMT

---------- ----------

2001 10000

2002 4000

2003 8000

Q. List the customer holding fixed deposit of amount more than 5000

SQL> select fname, amt from cust\_mstr, acc\_fd\_cust\_dets a, fd\_dets f

where cust\_no = a.code\_no and a.ac\_fd\_no = f.fd\_sr\_no and amt > 5000;

FNAME AMT

---------- ----------

Nikhil 10000

Aniket 8000

3. Create following Tables

emp\_mstr(emp\_no, f\_name, l\_name, branch\_no)

branch\_mstr(name,b\_no)

SQL>create table branch\_mstr(

name varchar(10) NOT NULL,

branch\_no number NOT NULL,

constraint branch\_mstr\_pk PRIMARY KEY(branch\_no)

);

Table created.

SQL>create table emp\_mstr(

emp\_no number NOT NULL,

f\_name varchar(10) NOT NULL,

l\_name varchar(10) NOT NULL,

branch\_no number NOT NULL,

constraint emp\_mstr\_pk PRIMARY KEY(emp\_no),

constraint fk\_emp\_mstr FOREIGN KEY(branch\_no) references branch\_mstr(branch\_no)

);

Table created.

SQL> insert into branch\_mstr values('Nigdi', 101);

1 row created.

SQL> insert into branch\_mstr values('Akurdi', 102);

1 row created.

SQL> select \* from branch\_mstr;

NAME BRANCH\_NO

---------- ----------

Nigdi 101

Akurdi 102

SQL> insert into emp\_mstr values(1, 'Nikhil', 'Lakare',101);

1 row created.

SQL> insert into emp\_mstr values(2, 'Pranav', 'More', 101);

1 row created.

SQL> insert into emp\_mstr values(3, 'Aniket', 'Mohite', 102);

1 row created.

SQL> insert into emp\_mstr values(4, 'Darshan', 'Labhade', 102);

1 row created.

SQL> select \* from emp\_mstr;

EMP\_NO F\_NAME L\_NAME BRANCH\_NO

---------- ---------- ---------- ----------

1 Nikhil Lakare 101

2 Pranav More 101

3 Aniket Mohite 102

4 Darshan Labhade 102

Q.List the employee details along with branch names to which they belong

SQL> select e.\*, b.name from emp\_mstr e, branch\_mstr b where e.branch\_no = b.branch\_no;

EMP\_NO F\_NAME L\_NAME BRANCH\_NO NAME

---------- ---------- ---------- ---------- ----------

1 Nikhil Lakare 101 Nigdi

2 Pranav More 101 Nigdi

3 Aniket Mohite 102 Akurdi

4 Darshan Labhade 102 Akurdi

4.Create following Tables

emp\_mstr(emp\_no, f\_name, l\_name, branch\_no)

cntc\_dets(code\_no, cntc\_type, cntc\_data)

SQL>create table cntc\_dets(

code\_no number NOT NULL,

cntc\_type varchar(5) NOT NULL,

cntc\_data varchar(10) NOT NULL,

constraint fk\_cntc\_dets FOREIGN KEY(code\_no) references emp\_mstr(emp\_no)

);

SQL> insert into cntc\_dets values(1, 'MOB', '987654321');

1 row created.

SQL> insert into cntc\_dets values(2, 'MOB', '9876123456');

1 row created.

SQL> insert into cntc\_dets values(3, 'TEL', '2234567914');

1 row created.

SQL> insert into cntc\_dets values(4, 'TEL', '2234877914');

1 row created.

SQL> select \* from cntc\_dets;

CODE\_NO CNTC\_TYP CNTC\_DATA

---------- ------------- ----------------

1 MOB 987654321

2 MOB 9876123456

3 TEL 2234567914

4 TEL 2234877914

Q. List the employee details along with contact details using left outer join & right join

SQL> select e.emp\_no, e.f\_name, e.l\_name, c.cntc\_type, c.cntc\_data from emp\_mstr e, cntc\_dets c where e.emp\_no = c.code\_no;

EMP\_NO F\_NAME L\_NAME CNTC\_ CNTC\_DATA

---------- ---------- ---------- ----- ----------

1 Nikhil Lakare MOB 987654321

2 Pranav More MOB 9876123456

3 Aniket Mohite TEL 2234567914

4 Darshan Labhade TEL 2234877914

5. Create following Tables

cust\_mstr(cust\_no,fname,lname)

add\_dets(code\_no,pincode)

SQL>select \* from cust\_mstr;

CUST\_NO FNAME LNAME

------------ ------------ --------------

C1 Nikhil Lakare

C2 Pranav More

C3 Aniket Mohite

C4 Darshan Labhade

SQL>select \* from add\_dets;

CODE\_NO PINCODE

------------ ------------

C1 411044

C2 411045

C3 411046

C4 411047

B1 411044

B2 411046

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

SQL> select \* from cust\_mstr where cust\_no in (

select code\_no from add\_dets where code\_no like 'C%' and pincode not in

(select pincode from add\_dets where code\_no like 'B%')

);

CUST\_NO FNAME LNAME

------------- ---------- ----------

C2 Pranav More

C4 Darshan Labhade

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

SQL> select \* from borrower;

CUST\_NAME LOAN\_NO

-------------------- ----------

Aniket 2001

Darshan 2002

SQL> create view borrower\_view as select cust\_name, loan\_no from borrower;

View created.

SQL> insert into borrower\_view values('Mohit', 2003);

1 row created.

SQL> insert into borrower\_view values('Rohit', 2004);

1 row created.

SQL> delete from borrower\_view where cust\_name = 'Rohit';

1 row deleted.

SQL> update borrower\_view set cust\_name = 'Rohit' where cust\_name = 'Mohit';

1 row updated.

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

SQL> select \* from borrower;

CUST\_NAME LOAN\_NO

-------------------- ----------

Aniket 2001

Darshan 2002

SQL> select \* from depositor;

CUST\_NAME ACC\_NO

-------------------- ----------

Nikhil 1001

Pranav 1002

SQL> create view borrower\_depositor\_view as select b.cust\_name, d.acc\_no from borrower b, depositor d;

View created.

SQL> insert into borrower\_depositer\_view values('Mohit', ‘1005’);

1 row created.

SQL> insert into borrower\_depositor\_view values('Rohit', ‘1006’);

1 row created.

SQL> delete from borrower\_depositor\_view where cust\_name = ‘Rohit';

1 row deleted.

SQL> update borrower\_depositor\_view set cust\_name = 'Rohit' where cust\_name = 'Mohit';

1 row updated.

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

SQL> select \* from borrower;

CUST\_NAME LOAN\_NO

-------------------- ----------

Aniket 2001

Darshan 2002

SQL> create view borrower\_view as select cust\_name, loan\_no from borrower;

View created.

SQL> insert into borrower\_view values('Mohit', 2003);

1 row created.

SQL> insert into borrower\_view values('Rohit', 2004);

1 row created.

SQL> delete from borrower\_view where cust\_name = 'Rohit';

1 row deleted.

SQL> update borrower\_view set cust\_name = 'Rohit' where cust\_name = 'Mohit';

1 row updated.