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Roll No.: SYCOC303   Course Name: Project Based Learning - II

Div: C   Batch: C4   Course Code: BCE4409

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Problem Statement:

1. Create following Tables

cust_mstr(cust_no,fname,lname)

add_dets(code_no,add1,add2,state,city,pincode)

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

2.Create following Tables

cust_mstr(custno,fname,lname)

acc_fd_cust_dets(codeno,acc_fd_no)

fd_dets(fd_sr_no,amt)

List the customer holding fixed deposit of amount more than 5000

3. Create following Tables

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

branch_mstr(name,b_no)

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

4. Create following Tables

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

cntc_dets(code_no,cntc_type,cntc_data)

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

5. Create following Tables

cust_mstr(cust_no,fname,lname)

add_dets(code_no,pincode)

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

6. **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

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Outputs:

Q 01: **Retrieve the address of customer Fname as 'xyz' and Lname as 'pqr'**

Creating cust_mstr table:

```
create table cust_mstr
(
    cust_no int primary key,
    fname varchar2(20),
    lname varchar2(20)
);


insert into cust_mstr values(101,'ABC','LMN');
insert into cust_mstr values(102,'XYZ','PQR');
insert into cust_mstr values(103,'GHI','JKL');


Creating add_dets table
create table add_dets
(
    code_no int primary key REFERENCES cust_mstr(cust_no),
    add1 varchar2(10),
    add2 varchar2(10),
    state varchar2(15),
    city varchar2(10),
    pincode int
);
```

```
insert into add_dets
values(102,'ABSociety','Dhankawadi','Maharashtra','Pune',413411)
;
insert into add_dets
values(101,'LMSociety','Gandhnagar','Gujarat','Ahmedabad',540213
);
insert into add_dets
values(103,'XYSociety','Vasahat','Maharashtra','Kolhapur',414420
);
```

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```
SQL> select *from add_dets;

    CODE_NO ADD1          ADD2          STATE          CITY
PINCODE

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

       102 ABSociety  Dhankawadi Maharashtra     Pune
413411

       101 LMSociety  Gandhnagar Gujarat         Ahmedabad
540213

       103 XYSociety  Vasahat    Maharashtra     Kolhapur
414420


SQL> select *from cust_mstr;


    CUST_NO FNAME               LNAME

---------- ------------------- -------------------
       101 ABC                 LMN
       102 XYZ                 PQR
       103 GHI                 JKL


SQL> create view prb_1 as
  2  select add1,add2,state,city,pincode from add_dets where
code_no in (select cust_no from cust_mstr where fname='XYZ' and
lname='PQR');
```

```
View created.


SQL> select *from prb_1;


ADD1        ADD2        STATE           CITY        PINCODE
----------  ----------  --------------  ----------  ----------
ABSociety   Dhankawadi  Maharashtra     Pune            413411


SQL>
```
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Q 02: List the customer holding fixed deposit of amount more than 5000

```
create table cust_mstr
(
     cust_no int primary key,
     fname varchar2(20),
     lname varchar2(20)
);


create table acc_fd_cust_dets
(
     codeno int REFERENCES cust_mstr(cust_no),
     acc_fd_no int primary key REFERENCES fd_dets(fd_sr_no)
);


insert into acc_fd_cust_dets values(101,101);
insert into acc_fd_cust_dets values(102,102);
insert into acc_fd_cust_dets values(101,103);
insert into acc_fd_cust_dets values(103,104);
insert into acc_fd_cust_dets values(102,105);
insert into acc_fd_cust_dets values(103,106);
```

```
insert into acc_fd_cust_dets values(101,107);

create table fd_dets
(
     fd_sr_no int primary key,
     amt int
);

insert into fd_dets values(101,6200);
insert into fd_dets values(102,2000);
insert into fd_dets values(103,5000);
insert into fd_dets values(104,5500);
insert into fd_dets values(105,62000);
insert into fd_dets values(106,32000);
insert into fd_dets values(107,2000);




SQL> select *from cust_mstr
  2  where cust_no
  3  in (select codeno from acc_fd_cust_dets
  4  where acc_fd_no
  5  in(select fd_sr_no from fd_dets where amt>5000));


  CUST_NO FNAME                LNAME
---------- -------------------- --------------------
       101 ABC                  LMN
       102 XYZ                  PQR
       103 GHI                  JKL

================================================================
================================================================
```

Q 03: List the employee details along with branch names to which they belong

```
create table emp_mstr
(
    emp_no int primary key,
    f_name varchar2(10),
    l_name varchar2(10),
    m_name varchar2(10),
    dept varchar2(10),
    desg varchar2(10),
    branch_no int REFERENCES branch_mstr(b_no)
);


insert into emp_mstr
values(101,'Vinayak','Shete','Madan','ADMIN','HEAD',301);


insert into emp_mstr
values(102,'Sakshi','Kulkarni','Sharad','ACCOUNTS','HEAD',303);


insert into emp_mstr
values(103,'Vishwesh','Shete','Madan','MARKET','MANAGER',304);


create table branch_mstr
(
    name varchar2(10),
    b_no int primary key
);


insert into branch_mstr values('Pune',301);
insert into branch_mstr values('Mumbai',302);
insert into branch_mstr values('Kolhapur',303);
insert into branch_mstr values('Sangli',304);
```

```
SQL> select *from branch_mstr;

NAME            B_NO

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

Pune             301
Mumbai           302
Kolhapur         303
Sangli           304

SQL> select *from emp_mstr;

    EMP_NO F_NAME     L_NAME     M_NAME     DEPT       DESG
BRANCH_NO

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

       103 Vishwesh   Shete      Madan      MARKET     MANAGER
304

       101 Vinayak    Shete      Madan      ADMIN      HEAD
301

       102 Sakshi     Kulkarni   Sharad     ACCOUNTS   HEAD
303


SQL> select *from emp_mstr JOIN branch_mstr ON
emp_mstr.branch_no =branch_mstr.b_no;

    EMP_NO F_NAME     L_NAME     M_NAME     DEPT       DESG
BRANCH_NO

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

NAME            B_NO

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

       101 Vinayak    Shete      Madan      ADMIN      HEAD
301
Pune             301


       102 Sakshi     Kulkarni   Sharad     ACCOUNTS   HEAD
303
Kolhapur         303
```

```
        103 Vishwesh    Shete       Madan      MARKET      MANAGER
304

Sangli             304
```

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Q 04: List the employee details along with contact details using left outer join & right join

```
create table emp_mstr
(
     emp_no int primary key,
     f_name varchar2(10),
     l_name varchar2(10),
     m_name varchar2(10),
     dept varchar2(10)
);


insert into emp_mstr values(101,'Vinayak','Shete','Madan','ADMIN');


insert into emp_mstr values(102,'Sakshi','Kulkarni','Sharad','ACCOUNTS');


insert into emp_mstr values(103,'Vishwesh','Shete','Madan','MARKET');


insert into emp_mstr values(104,'Janhavi','Mali','Vijay','MANAGE');


create table cntc_dets
(
     code_no int primary key REFERENCES emp_mstr(emp_no),
     cntc_type varchar2(10),
     cntc_data varchar2(20)
);


insert into cntc_dets values(101,'MAIL','vinayak@gmail.com');
insert into cntc_dets values(102,'MOBILE','9922327051');
```

```
insert into cntc_dets values(103,'MAIL','janhavi@gmail.com');
```

```
SQL> select *from emp_mstr;


    EMP_NO F_NAME     L_NAME     M_NAME     DEPT
---------- ---------- ---------- ---------- ----------
       101 Vinayak    Shete      Madan      ADMIN
       102 Sakshi     Kulkarni   Sharad     ACCOUNTS
       103 Vishwesh   Shete      Madan      MARKET
       104 Janhavi    Mali       Vijay      MANAGE


SQL> select *from cntc_dets;


   CODE_NO CNTC_TYPE  CNTC_DATA
---------- ---------- --------------------
       102 MOBILE     9922327051
       101 MAIL       vinayak@gmail.com
       103 MAIL       janhavi@gmail.com


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
--------------------
       102 Sakshi     Kulkarni   Sharad     ACCOUNTS          102 MOBILE
9922327051


       101 Vinayak    Shete      Madan      ADMIN             101 MAIL
vinayak@gmail.com


       103 Vishwesh   Shete      Madan      MARKET            103 MAIL
janhavi@gmail.com
```

```
     EMP_NO F_NAME     L_NAME     M_NAME     DEPT          CODE_NO CNTC_TYPE
---------- ---------- ---------- ---------- ---------- ---------- ----------
CNTC_DATA
-------------------
       104 Janhavi    Mali       Vijay      MANAGE
```

```
SQL> select *from emp_mstr right 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 Vinayak    Shete      Madan      ADMIN             101 MAIL
vinayak@gmail.com
       102 Sakshi     Kulkarni   Sharad     ACCOUNTS          102 MOBILE
9922327051
       103 Vishwesh   Shete      Madan      MARKET            103 MAIL
janhavi@gmail.com
```

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Q 05: List the customer who do not have bank branches in their vicinity.

```
create table cust_dets
(
     cust_no int primary key,
     fname varchar2(10),
     lname varchar2(10)
);


insert into cust_dets values(101,'Vinayak','Shete');
insert into cust_dets values(102,'Vishwesh','Shete');
```

```
insert into cust_dets values(103,'Pratik','Patil');

create table add_dets
(
      code_no int primary key REFERENCES cust_mstr(cust_no),
      pincode int
);

insert into add_dets values(101,415411);
insert into add_dets values(102,416203);
insert into add_dets values(103,514201);


create table branch_add_dets
(
      b_no int primary key,
      b_name varchar2(10),
      b_pin int
);

insert into branch_add_dets values(301,'Pune',415411);
insert into branch_add_dets values(302,'Kolhapur',514201);
insert into branch_add_dets values(303,'Sangli',302152);


SQL> select *from cust_dets;

   CUST_NO FNAME      LNAME
---------- ---------- ----------
       101 Vinayak    Shete
       102 Vishwesh   Shete
       103 Pratik     Patil

SQL> select *from add_dets;
```

```
   CODE_NO    PINCODE

---------- ----------
       101     415411
       102     416203
       103     514201


SQL> select *from branch_add_dets;


   B_NO B_NAME          B_PIN

---------- ---------- ----------
       301 Pune          415411
       302 Kolhapur      514201
       303 Sangli        302152


SQL> select *from cust_dets where cust_no in(select code_no from add_dets
where pincode not in(select b_pin from branch_add_dets));


   CUST_NO FNAME       LNAME

---------- ---------- ----------
       102 Vishwesh    Shete


SQL>
```

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Q 06:

```
SQL> create view View1 as

     select Borrower_id,Borrower_amount from Borrower;

SQL> create view View2 as

     select Depositor.d_name,Depositor.d_amount,Borrower.amount
     from Depositor,Borrower;
```

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