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**Class :** TE A

**Roll No :** TECOA124

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### **Assignment No. 3**

**Title:** Subqueries, Views, Joins, In and Not In Operators

#### **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'**

SQL> select \* from add\_dets3;

CODE_NO	ADD1	ADD2	STATE	CITY	PINCODE
101	chinchwad	nigdi	maha	pune	422007
102	nigdi	chinchwad	maha	pune	345678
103	college road	nashik	maha	nashik	422008

SQL> select \* from cust\_mst;

CUST_NO	FNAME	LNAME
101	xyz	pqr
102	xyz	lmn
103	abc	def
104	rst	sup

SQL> select \* from add\_dets3 where code\_no in(select cust\_no from cust\_mst where fname='xyz' AND lname='pqr');

CODE_NO	ADD1	ADD2	STATE	CITY	PINCODE
101	chinchwad	nigdi	maha	pune	422007

#### **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**

SQL> select \* from fd\_dets1;

FD_SR_NO	AMOUNT
1	2000
2	5500
3	100000

SQL> select \*from acc\_fd\_cust\_dets1;

CODE_NO	ACC_FD_NO
101	1
102	2
103	3

SQL> select \*from cust\_mst;

CUST_NO	FNAME	LNAME
101	xyz	pqr
102	xyz	lmn
103	abc	def
104	rst	sup

SQL> select \*from cust\_mst where cust\_no in (select code\_no from acc\_fd\_cust\_dets1 where acc\_fd\_no in (select fd\_sr\_no from fd\_dets1 where amount>5000));

CUST_NO	FNAME	LNAME
102	xyz	lmn
103	abc	def

### 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**

SQL> select \*from branch\_mst;

NAME	B_NO
human r	2
comp	3
comp	4

SQL> select \*from emp\_mst1;

EMP_NO	FNAME	LNAME	MNAME	DEPT	DESG	BRANCH_NO
102	XYZ	abc	a	HR	HR	2
103	lmn	xyz	g	product	manager	3
104	def	dfg	j	Testing	sw tester	4

SQL> select \*from emp\_mst1 inner join branch\_mst on emp\_mst1.branch\_no=branch\_mst.b\_no;

EMP_NO	FNAME	LNAME	MNAME	DEPT	DESG	BRANCH_NO	NAME
102	XYZ	abc	a	HR	HR	2	human r
103	lmn	xyz	g	product	manager	3	comp
104	def	dfg	j	Testing	sw tester	4	comp

#### 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

SQL> select \* from contact;

CODE_NO	TYPE	DATA
1234	office	2541653
1235	home	123456789
1236	office	98765321

SQL> select \* from emp\_mstr24;

ENO	FNAME	MNAME	LNAME
1234	ash	jej	geog
comp	Manager	1	
1235	mayuresh	rajendra	deshmukh
finance	cfo	2	
1236	anna	m	mohan
inventory	inv head	3	

select eno,fname,lname,mname,dept,contact.type,contact.data from emp\_mstr24 left join contact on emp\_mstr24.eno=contact.code\_no;

ENO	FNAME	LNAME	MNAME
1234	ash	geog	jej
comp	office	2541653	
1235	mayuresh	deshmukh	rajendra
finance	home	123456789	
1236	anna	mohan	m
inventory	office	98765321	

SQL> select eno,fname,mname,lname,dept,contact.type,contact.data from emp\_mstr24 right join contact on

emp\_mstr24.eno=contact.code\_no;

ENO	FNAME	MNAME	LNAME
DEPT	TYPE	DATA	
1234	ash	jej	geog
comp	office	2541653	
1235	mayuresh	rajendra	deshmukh
finance	home	123456789	
1236	anna	m	mohan
inventory	office	98765321	

## 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.**

SQL> select \*from cust\_mst;

FNAME	LNAME	CUST_NO
xyz	pqr	c1
xyz	lmn	c2
abc	def	c4
rst	sup	c3

SQL> select \*from add\_dets;

CODE_NO	PINCODE
c1	411006
c2	422007
c3	765432
b4	411006
b5	765432
b6	456789

6 rows selected.

SQL> select \* from cust\_mst where cust\_no in(select code\_no from add\_dets where pincode not in( select pincode from add\_dets where code\_no like 'b%'));

FNAME	LNAME	CUST_NO
xyz	lmn	c2

## 6.

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

LOAN\_NO NAME CUST\_NO

101 abc	1
102 xyz	2
103 pqr	3
104 lmn	4

SQL> create view v1 as select cust\_no,name from borrow;

View created.

SQL> select \* from v1;

CUST_NO	NAME
1	abc
2	xyz
3	pqr
4	lmn

SQL> insert into v1 values(&cust\_no,&name);

Enter value for cust\_no: 5

Enter value for name: ram

old 1: insert into v1 values(&cust\_no,&name')

new 1: insert into v1 values(5,'ram')

1 row created.

SQL> /

Enter value for cust\_no: 6

Enter value for name: shyam

old 1: insert into v1 values(&cust\_no,&name')

new 1: insert into v1 values(6,'shyam')

1 row created.

SQL> select \* from v1;

CUST_NO	NAME
1	abc
2	xyz
3	pqr
4	lmn
5	ram
6	shyam

6 rows selected.

SQL> select \* from borrow;

LOAN_NO	NAME	CUST_NO
101	abc	1
102	xyz	2
103	pqr	3
104	lmn	4
	ram	5
	shyam	6

6 rows selected.

SQL> update v1 set name='harish' where cust\_no=5;

1 row updated.

SQL> select \* from v1;

CUST_NO	NAME
---------	------

1 abc  
2 xyz  
3 pqr  
4 lmn  
5 harish  
6 shyam

6 rows selected.

SQL> delete from v1 where name='abc';

1 row deleted.

SQL> select \* from v1;

CUST_NO	NAME
2	xyz
3	pqr
4	lmn
5	harish
6	shyam

SQL> select \* from borrow;

LOAN_NO	NAME	CUST_NO
102	xyz	2
103	pqr	3
104	lmn	4
	harish	5
	shyam	6

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

SQL> select \* from borrow;

LOAN_NO	NAME	CUST_NO
102	xyz	2
103	pqr	3
104	lmn	4
105	harish	5
106	shyam	6

SQL> select \* from deposit;

CUST_NO	CUSTNAME
1	abc
5	harish
6	shyam
7	mukesh
8	mayuresh

SQL> create view v2 as select b.name,d.cust\_no from borrow b,deposit d where b.cust\_no=d.cust\_no;

View created.

```
SQL> select * from v2;
```

NAME	CUST_NO
harish	5
shyam	6

```
SQL> insert into v2 values('rohit',7);
```

```
insert into v2 values('rohit',7)
```

\*

ERROR at line 1:

ORA-01779: cannot modify a column which maps to a non key-preserved table

```
SQL> update v2 set name='vicky' where cust_no=5;
```

```
update v2 set name='vicky' where cust_no=5
```

\*

ERROR at line 1:

ORA-01779: cannot modify a column which maps to a non key-preserved table

```
SQL> delete from v2;
```

```
delete from v2
```

\*

ERROR at line 1:

ORA-01752: cannot delete from view without exactly one key-preserved table

```
SQL> delete from v2 where name='harish';
```

```
delete from v2 where name='harish'
```

\*

ERROR at line 1:

ORA-01752: cannot delete from view without exactly one key-preserved table

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

SQL> select \* from borrow;

LOAN_NO NAME	CUST_NO
101 abc	1
102 xyz	2
103 pqr	3
104 lmn	4

SQL> create view v1 as select cust\_no,name from borrow;

View created.

SQL> select \* from v1;

CUST_NO NAME
1 abc
2 xyz
3 pqr
4 lmn

SQL> insert into v1 values(&cust\_no,&name);

Enter value for cust\_no: 5

Enter value for name: ram

old 1: insert into v1 values(&cust\_no,&name')

new 1: insert into v1 values(5,'ram')

1 row created.

SQL> /

Enter value for cust\_no: 6

Enter value for name: shyam

old 1: insert into v1 values(&cust\_no,&name')

new 1: insert into v1 values(6,'shyam')

1 row created.

SQL> select \* from v1;

CUST_NO NAME
1 abc
2 xyz
3 pqr
4 lmn
5 ram
6 shyam

6 rows selected.

SQL> select \* from borrow;

LOAN_NO NAME	CUST_NO
101 abc	1
102 xyz	2
103 pqr	3
104 lmn	4
ram	5
shyam	6

6 rows selected.

SQL> update v1 set name='harish' where cust\_no=5;

1 row updated.



```
SQL> select * from v1;
```

CUST_NO	NAME
1	abc
2	xyz
3	pqr
4	lmn
5	harish
6	shyam

6 rows selected.

```
SQL> delete from v1 where name='abc';
```

1 row deleted.

```
SQL> select * from v1;
```

CUST_NO	NAME
2	xyz
3	pqr
4	lmn
5	harish
6	shyam

```
SQL> select * from borrow;
```

LOAN_NO	NAME	CUST_NO
102	xyz	2
103	pqr	3
104	lmn	4
	harish	5
	shyam	6