Assignment no 3

TCOA -Shrutee Pimpare

**Solution:**

# 1)Create following tables Cust\_mstr(cust\_no, fname, lname) Add\_dets(code\_no, addr1, addr2, state, city, pincode)

CREATE TABLE cust\_mstr ( cust\_no INTEGER PRIMARY KEY, fname TEXT NOT NULL, lname TEXT NOT NULL

);

INSERT INTO cust\_mstr VALUES (0001, 'Rutuja', 'Deshmane');

INSERT INTO cust\_mstr VALUES (0002, 'Trupti', 'Baraje');

INSERT INTO cust\_mstr VALUES (0003, 'Samiksha', 'Dharmadhikari');

INSERT INTO cust\_mstr VALUES (0004, 'Mahima', 'Khandelwal');

mysql> select \* from cust\_mstr; +---------+----------+---------------+

| cust\_no | fname | lname |

+---------+----------+---------------+

| 1 | Rutuja | Deshmane |

| 2 | Trupti | Baraje |

| 3 | Samiksha | Dharmadhikari |

| 4 | Mahima | Khandelwal |

+---------+----------+---------------+

4 rows in set (0.00 sec)

CREATE TABLE add\_dets( code\_no INTEGER PRIMARY KEY, addr1 text not null, addr2 text, state text not null, city text not null, pincode INTEGER not null

);

INSERT INTO add\_dets VALUES (0001, 'Rutuja-nagar', 'dange','mahashrata','Pune',41019);

INSERT INTO add\_dets VALUES (0002, 'Trupti-nagar', 'Senapatinagar','maharashtra','Pune',41045); INSERT INTO add\_dets VALUES (0003, 'Samiksha-nagar', 'Jc road','maharashtra','Mumbai',41010); INSERT INTO add\_dets VALUES (0004, 'Mahima-nagar', 'mk road','maharashtra','Nashik',410118);

mysql> select \* from add\_dets;

+---------+----------------+----------------+-------------+--------+---------+

| code\_no | addr1 | addr2 | state | city | pincode |

+---------+----------------+----------------+-------------+--------+---------+

| 1 | Rutuja-nagar | dange | mahashrata | Pune | 41019 |

| 2 | Trupti-nagar | Senapati nagar | maharashtra | Pune | 41045 |

| 3 | Samiksha-nagar | Jc road | maharashtra | Mumbai | 41010 |

| 4 | Mahima-nagar | mk road | maharashtra | Nashik | 410118 |

+---------+----------------+----------------+-------------+--------+---------+

4 rows in set (0.00 sec)

**Retrieve the address of customer fname as ‘Rutuja’ and lname as**

**‘Deshmane’**

mysql> select addr1,addr2 from add\_dets

-> where code\_no in

-> ( select cust\_no

-> from cust\_mstr

-> where fname = 'Rutuja' and lname = 'Deshmane');

+--------------+-------+

| addr1 | addr2 |

+--------------+-------+

| Rutuja-nagar | dange |

+--------------+-------+

1 row in set (0.01 sec)

# 2)create following tables Cust\_mstr(cust\_no,fname,lname) Acc\_fd\_cust\_dets(code\_no,acc\_fd\_no) Fd\_dets(fd\_sr\_no, amt)

CREATE TABLE cust\_mstr ( cust\_no INTEGER PRIMARY KEY, fname TEXT NOT NULL, lname TEXT NOT NULL

);

INSERT INTO cust\_mstr VALUES (0001, 'Rutuja', 'Deshmane');

INSERT INTO cust\_mstr VALUES (0002, 'Trupti', 'Baraje');

INSERT INTO cust\_mstr VALUES (0003, 'Samiksha', 'Dharmadhikari');

INSERT INTO cust\_mstr VALUES (0004, 'Mahima', 'Khandelwal');

mysql> select \* from cust\_mstr; +---------+----------+---------------+

| cust\_no | fname | lname |

+---------+----------+---------------+

| 1 | Rutuja | Deshmane |

| 2 | Trupti | Baraje |

| 3 | Samiksha | Dharmadhikari |

| 4 | Mahima | Khandelwal |

+---------+----------+---------------+

4 rows in set (0.00 sec)

CREATE TABLE acc\_fd\_cust\_dets( code\_no INTEGER not null, acc\_fd\_no INTEGER PRIMARY key

);

INSERT INTO acc\_fd\_cust\_dets values(0001, 101);

INSERT INTO acc\_fd\_cust\_dets values(0002, 102);

INSERT INTO acc\_fd\_cust\_dets values(0003, 103);

INSERT INTO acc\_fd\_cust\_dets values(0004, 104);

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

+---------+-----------+

| code\_no | acc\_fd\_no |

+---------+-----------+

| 1 | 101 |

| 2 | 102 |

| 3 | 103 |

| 4 | 104 |

+---------+-----------+

4 rows in set (0.00 sec)

CREATE TABLE fd\_dets( fd\_sr\_no INTEGER PRIMARY KEY, amt INTEGER not null

); insert into fd\_dets values(101,2000); insert into fd\_dets values(102,20000); insert into fd\_dets values(103,10000); insert into fd\_dets values(104,1000);

mysql> select \* from fd\_dets;

+----------+-------+

| fd\_sr\_no | amt |

+----------+-------+

| 101 | 2000 |

| 102 | 20000 |

| 103 | 10000 |

| 104 | 1000 |

+----------+-------+

4 rows in set (0.00 sec)

# List the customer holding fixed deposit of amt more than 5000

mysql> select fname, lname

-> from cust\_mstr where cust\_no in

-> (select code\_no from acc\_fd\_cust\_dets where acc\_fd\_no in

-> (select fd\_sr\_no from fd\_dets where amt>5000));

+----------+---------------+

| fname | lname |

+----------+---------------+

| Trupti | Baraje |

| Samiksha | Dharmadhikari |

+----------+---------------+

2 rows in set (0.01 sec)

# 3)create following tables Emp\_mstr(emp\_no, fname, lname, mname, dept, desg, branch\_no) Branch\_mstr(name, b\_no)

CREATE TABLE emp\_mstr ( emp\_no INTEGER PRIMARY KEY, fname TEXT NOT NULL, lname TEXT NOT NULL, mname TEXT , dept text not null, desg text not null, branch\_no INTEGER not null

);

INSERT INTO emp\_mstr VALUES (1011, 'Samarth', 'Deshmane', 'suryskrant','sprts', 'trainer',2011);

INSERT INTO emp\_mstr VALUES (1012, 'Alka', 'Deshmane', 'suryskrant','sprts', 'trainer',2012);

INSERT INTO emp\_mstr VALUES (1013, 'shriyash', 'Deshmane', 'suryskrant','sprts', 'trainer',2013);

INSERT INTO emp\_mstr VALUES (1014, 'sahil', 'Deshmane', 'suryskrant','sprts', 'trainer',2014); mysql> select \* from emp\_mstr;

+--------+----------+----------+------------+-------+---------+-----------+

| emp\_no | fname | lname | mname | dept | desg | branch\_no |

+--------+----------+----------+------------+-------+---------+-----------+

| 1011 | Samarth | Deshmane | suryskrant | sprts | trainer | 2011 |

| 1012 | Alka | Deshmane | suryskrant | sprts | trainer | 2012 |

| 1013 | shriyash | Deshmane | suryskrant | sprts | trainer | 2013 |

| 1014 | sahil | Deshmane | suryskrant | sprts | trainer | 2014 |

+--------+----------+----------+------------+-------+---------+-----------+

4 rows in set (0.00 sec)

CREATE TABLE branch\_mstr( name text not null, b\_no INTEGER PRIMARY key

);

INSERT INTO branch\_mstr values('akrudi', 2011);

INSERT INTO branch\_mstr values('nigdi', 2012);

INSERT INTO branch\_mstr values('chichwad', 2013);

INSERT INTO branch\_mstr values('sahil ', 2014);

mysql> select \* from branch\_mstr;

+----------+------+

| name | b\_no |

+----------+------+

| akrudi | 2011 |

| nigdi | 2012 |

| chichwad | 2013 |

| sahil | 2014 |

+----------+------+

4 rows in set (0.00 sec)

**List the employee details along with branch name to which they belong.**

mysql> select emp\_no,fname,lname,mname,dept,desg,branch\_no,b.name from emp\_mstr e

-> inner join

-> branch\_mstr b

-> on e.branch\_no = b.b\_no;

+--------+----------+----------+------------+-------+---------+-----------+----------+

| emp\_no | fname | lname | mname | dept | desg | branch\_no | name |

+--------+----------+----------+------------+-------+---------+-----------+----------+

| 1011 | Samarth | Deshmane | suryskrant | sprts | trainer | 2011 | akrudi |

| 1012 | Alka | Deshmane | suryskrant | sprts | trainer | 2012 | nigdi |

| 1013 | shriyash | Deshmane | suryskrant | sprts | trainer | 2013 | chichwad |

| 1014 | sahil | Deshmane | suryskrant | sprts | trainer | 2014 | sahil | +--------+----------+----------+------------+-------+---------+-----------+----------+

4 rows in set (0.00 sec)

# 4)create following tables Emp\_mstr(emp\_no, fname, lname, mname, dept) Cntc\_dets(code\_no, cntc\_type, cntc\_data)

CREATE TABLE emp\_mstr ( emp\_no INTEGER PRIMARY KEY, fname TEXT NOT NULL, lname TEXT NOT NULL, mname TEXT , dept text not null

);

INSERT INTO emp\_mstr VALUES (1011, 'Samarth', 'Deshmane', 'suryskrant','sprts'); INSERT INTO emp\_mstr VALUES (1012, 'Alka', 'Deshmane', 'suryskrant','sprts');

INSERT INTO emp\_mstr VALUES (1013, 'shriyash', 'Deshmane', 'suryskrant','sprts');

INSERT INTO emp\_mstr VALUES (1014, 'sahil', 'Deshmane', 'suryskrant','sprts');

mysql> select \* from emp\_mstr; +--------+----------+----------+------------+-------+

| emp\_no | fname | lname | mname | dept |

+--------+----------+----------+------------+-------+

| 1011 | Samarth | Deshmane | suryskrant | sprts |

| 1012 | Alka | Deshmane | suryskrant | sprts |

| 1013 | shriyash | Deshmane | suryskrant | sprts |

| 1014 | sahil | Deshmane | suryskrant | sprts |

+--------+----------+----------+------------+-------+

4 rows in set (0.00 sec)

CREATE TABLE cntc\_dets( code\_no INTEGER PRIMARY key, cntc\_type text not null, cntc\_data text not null

);

INSERT INTO cntc\_dets values(1011, 'phone', '93731358');

INSERT INTO cntc\_dets values(1012, 'email', 'email@gmail.com');

INSERT INTO cntc\_dets values(1014, 'phone', '19767994');

mysql> select \* from cntc\_dets;

+---------+-----------+-----------------+

| code\_no | cntc\_type | cntc\_data |

+---------+-----------+-----------------+

| 1011 | phone | 93731358 |

| 1012 | email | email@gmail.com |

| 1014 | phone | 19767994 |

+---------+-----------+-----------------+

3 rows in set (0.00 sec)

# List the employee details with contact details using left join and right join

mysql> select emp\_no,fname,lname,mname,dept,

-> c.code\_no,c.cntc\_type,c.cntc\_data

-> from emp\_mstr e

-> left join

-> cntc\_dets c

-> on e.emp\_no = c.code\_no;

+--------+----------+----------+------------+-------+---------+-----------+-----------------+

| emp\_no | fname | lname | mname | dept | code\_no | cntc\_type | cntc\_data |

+--------+----------+----------+------------+-------+---------+-----------+-----------------+

| 1011 | Samarth | Deshmane | suryskrant | sprts | 1011 | phone | 93731358 |

| 1012 | Alka | Deshmane | suryskrant | sprts | 1012 | email | email@gmail.com |

| 1013 | shriyash | Deshmane | suryskrant | sprts | NULL | NULL | NULL |

| 1014 | sahil | Deshmane | suryskrant | sprts | 1014 | phone | 19767994 | +--------+----------+----------+------------+-------+---------+-----------+-----------------+

4 rows in set (0.00 sec)

mysql> select emp\_no,fname,lname,mname,dept,

-> c.code\_no,c.cntc\_type,c.cntc\_data

-> from emp\_mstr e

-> right join

-> cntc\_dets c

-> on e.emp\_no = c.code\_no;

+--------+---------+----------+------------+-------+---------+-----------+-----------------+

| emp\_no | fname | lname | mname | dept | code\_no | cntc\_type | cntc\_data |

+--------+---------+----------+------------+-------+---------+-----------+-----------------+

| 1011 | Samarth | Deshmane | suryskrant | sprts | 1011 | phone | 93731358 |

| 1012 | Alka | Deshmane | suryskrant | sprts | 1012 | email | email@gmail.com |

| 1014 | sahil | Deshmane | suryskrant | sprts | 1014 | phone | 19767994 | +--------+---------+----------+------------+-------+---------+-----------+-----------------+

3 rows in set (0.00 sec)

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

create table borrower( acc\_no int primary key, name text not null, amt int not null

); insert into borrower values(101,'Aish ', 100010); insert into borrower values(102,'adi', 100020); insert into borrower values(103,'swati', 451236);

mysql> select \* from borrower; +--------+-------+--------+

| acc\_no | name | amt |

+--------+-------+--------+

| 101 | Aish | 100010 |

| 102 | adi | 100020 |

| 103 | swati | 451236 |

+--------+-------+--------+

3 rows in set (0.01 sec)

mysql> create view b1 as select name, amt from borrower;

Query OK, 0 rows affected (0.01 sec)

mysql> select \* from b1;

+-------+--------+

| name | amt |

+-------+--------+

| Aish | 100010 |

| adi | 100020 |

| swati | 451236 |

+-------+--------+

3 rows in set (0.01 sec)

mysql> update b1 set amt = 7845 where name = 'swati';

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from borrower; +--------+-------+--------+

| acc\_no | name | amt |

+--------+-------+--------+

| 101 | Aish | 100010 |

| 102 | adi | 100020 |

| 103 | swati | 7845 |

+--------+-------+--------+

3 rows in set (0.00 sec)

mysql> delete from b1 where name = 'swati';

Query OK, 1 row affected (0.01 sec)

mysql> select \* from borrower; +--------+-------+--------+

| acc\_no | name | amt |

+--------+-------+--------+

| 101 | Aish | 100010 |

| 102 | adi | 100020 |

+--------+-------+--------+

2 rows in set (0.00 sec)

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

create table borrower( acc\_no int primary key, name text not null, amt int not null

); insert into borrower values(101,'Aish ', 100010); insert into borrower values(102,'adi', 100020);

mysql> select \* from borrower; +--------+-------+--------+

| acc\_no | name | amt |

+--------+-------+--------+

| 101 | Aish | 100010 |

| 102 | adi | 100020 |

+--------+-------+--------+

2 rows in set (0.00 sec)

create table depositor( dacc\_no int primary key, dname text not null, damt int not null

); insert into depositor values(102,'adi ', 45789); insert into depositor values(104,'sneha', 7895); insert into depositor values(103,'swati', 79854);

mysql> select \* from depositor; +---------+-------+-------+

| dacc\_no | dname | damt |

+---------+-------+-------+

| 102 | adi | 45789 |

| 103 | swati | 79854 |

| 104 | sneha | 7895 |

+---------+-------+-------+

3 rows in set (0.00 sec)

mysql> CREATE VIEW b3 AS SELECT amt LOAN, damt Deposit FROM depositor, borrower;

Query OK, 0 rows affected (0.06 sec)

mysql> select \* from b3; +--------+---------+

| LOAN | Deposit |

+--------+---------+

| 100020 | 45789 |

| 100010 | 45789 |

| 100020 | 79854 |

| 100010 | 79854 |

| 100020 | 7895 |

| 100010 | 7895 |

+--------+---------+

6 rows in set (0.01 sec)

# c)Create updateable view on borrower and depositor table by selecting any two column and perform insert update delete operations

create table borrower ( acc\_no int primary key, name varchar(10), amount int

); insert into borrower values(101, 'aish' , 10000); insert into borrower values(102, 'adi' , 4500); insert into borrower values(103, 'swati' , 45216);

mysql> select \* from borrower; +--------+-------+--------+

| acc\_no | name | amount |

+--------+-------+--------+

| 101 | aish | 10000 |

| 102 | adi | 4500 |

| 103 | swati | 45216 |

+--------+-------+--------+

3 rows in set (0.00 sec)

create view bview as select acc\_no , amount from borrower;

insert into bview values(104, 58901);

mysql> select \* from borrower; +--------+-------+--------+

| acc\_no | name | amount |

+--------+-------+--------+

| 101 | aish | 10000 |

| 102 | adi | 4500 |

| 103 | swati | 45216 |

| 104 | NULL | 58901 |

+--------+-------+--------+

4 rows in set (0.00 sec)

mysql> update bview set amount = 45000 where acc\_no = 104;

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from borrower; +--------+-------+--------+

| acc\_no | name | amount |

+--------+-------+--------+

| 101 | aish | 10000 |

| 102 | adi | 4500 |

| 103 | swati | 45216 |

| 104 | NULL | 45000 |

+--------+-------+--------+

4 rows in set (0.00 sec)

mysql> select \* from bview;

+--------+--------+

| acc\_no | amount |

+--------+--------+

| 101 | 10000 |

| 102 | 4500 |

| 103 | 45216 |

| 104 | 45000 |

+--------+--------+

4 rows in set (0.00 sec)

mysql> delete from bview where acc\_no = 104;

Query OK, 1 row affected (0.01 sec)

mysql> select \* from bview;

+--------+--------+

| acc\_no | amount |

+--------+--------+

| 101 | 10000 |

| 102 | 4500 |

| 103 | 45216 |

+--------+--------+

3 rows in set (0.00 sec)