**Aim :** To implement Derived horizontal fragmentation and Hybrid fragmentation.

**MAIN TABLE:**

**BANK**

ruchi=# select \* from atm.bank;

bid | bname | baddr

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

b1 |sbi | borivali

b2 |hdfc | kandivali(w)

b3 |icici | kandivali(e)

b4 | axis bank | dahisar(e)

b5 |canara bank | dahisar(w)

(5 rows)

**ATMTRANS:**

ruchi=# select \* from atm.atmtran;

atmid | cashlimit | atm\_addr | bid | cid

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

1 | 10000 | malad(w) | b1 | c1

2 | 25000 | malad(w) | b2 | c2

3 | 45000 | virar | b3 | c3

4 | 12000 | cst | b4 | c4

5 | 75000 | marinelines | b5 | c5

(5 rows)

**DERIVED HORIZONTAL FRAG:**

**FRAGMENT 1:**

ruchi=# select b.\* from atm.bankb,atm.atmtran a where a.bid=b.bid and a.cashlimit<=20000;

bid | bname | baddr

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

b1 |sbi | borivali

b4 | axis bank | dahisar(e)

(2 rows)

**FRAGMENT 2:**

ruchi=# select b.\* from atm.bankb,atm.atmtran a where a.bid=b.bid and a.cashlimit>20000;

bid | bname | baddr

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

b2 |hdfc | kandivali(w)

b3 |icici | kandivali(e)

b5 |canara bank | dahisar(w)

(3 rows)

**HYBRID FRAGMENT**

**FRAGMENT 1:**

ruchi=# create table atm.a1 as(select a.atmid,a.cashlimit,a.atm\_addr from atm.at

mtran a where a.atm\_addr='malad(w)');

SELECT 2

ruchi=# select \* from atm.a1;

atmid | cashlimit | atm\_addr

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

1 | 10000 | malad(w)

2 | 25000 | malad(w)

(2 rows)

**FRAGMENT 2:**

ruchi=# create table atm.a2 as(select a.atmid,a.cashlimit,a.atm\_addr from atm.at

mtran a where a.atm\_addr!='malad(w)');

SELECT 3

ruchi=# select \* from atm.a2;

atmid | cashlimit | atm\_addr

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

3 | 45000 | virar

4 | 12000 | cst

5 | 75000 | marinelines

**(3 rows)**

**FRAGMENT 3:**

ruchi=# create table atm.a3 as(select a.atmid,a.bid,a.cid,a.atm\_addr from atm.at

mtran a where a.atm\_addr!='malad(w)');

SELECT 3

ruchi=# select \* from atm.a3;

atmid | bid | cid | atm\_addr

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

3 | b3 | c3 | virar

4 | b4 | c4 | cst

5 | b5 | c5 | marinelines

(3 rows)

**FRAGMENT 4:**

ruchi=# create table atm.a4 as(select a.atmid,a.bid,a.cid,a.atm\_addr from atm.at

mtran a where a.atm\_addr='malad(w)');

SELECT 2

ruchi=# select \* from atm.a4;

atmid | bid | cid | atm\_addr

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

1 | b1 | c1 | malad(w)

2 | b2 | c2 | malad(w)

(2 rows)