**IN SYSTEM USER:**

CREATE USER ANI IDENTIFIED BY ANI;

GRANT DBA TO ANI;

CREATE USER VINI IDENTIFIED BY VINI;

GRANT DBA TO VINI;

CREATE USER LINI IDENTIFIED BY LINI;

GRANT DBA TO LINI;

**IN ANI USER:**

CREATE DATABASE LINK VINILINK CONNECT TO VINI IDENTIFIED BY VINI USING 'XE';

CREATE DATABASE LINK LINILINK CONNECT TO LINI IDENTIFIED BY LINI USING 'XE';

**IN VINI USER:**

CREATE DATABASE LINK VTOALINK CONNECT TO ANI IDENTIFIED BY ANI USING 'XE';

**IN LINI USER:**

CREATE DATABASE LINK LTOALINK CONNECT TO ANI IDENTIFIED BY ANI USING 'XE';

**DO THIS STEPS IN ALL USERS(ANI,VINI,LINI):**

CREATE TABLE STUDENT

(

HSCNO INTEGER, NAME VARCHAR(30),

DOB DATE, AGGR INTEGER, PRIMARY KEY(HSCNO)

);

CREATE TABLE COLLEGE

(

COLL\_CODE INTEGER PRIMARY KEY, NAME VARCHAR(50)

);

CREATE TABLE BRANCH

(

BCODE VARCHAR(3) PRIMARY KEY, BNAME VARCHAR(50)

);

CREATE TABLE COLL\_BRANCH

(

COLL\_CODE INTEGER REFERENCES COLLEGE(COLL\_CODE), BCODE TEXT REFERENCES BRANCH(BCODE), NOS INTEGER,

PRIMARY KEY(COLL\_CODE,BCODE )

);

INSERT INTO STUDENT VALUES(12345,'VIJAY','13-OCT-85',200);

INSERT INTO STUDENT VALUES(12344,'SAM','12-OCT-85',198);

INSERT INTO STUDENT VALUES(12355,'SIM','13-OCT-85',197);

INSERT INTO STUDENT VALUES(12356,'JIM','12-MAR-86',198);

INSERT INTO COLLEGE VALUES('1','CEG');

INSERT INTO COLLEGE VALUES('2','ACTECH');

INSERT INTO COLLEGE VALUES('3','SAP');

INSERT INTO COLLEGE VALUES('4','MIT');

INSERT INTO BRANCH VALUES('CSE', 'COMPUTER SCIENCE AND ENGINEERING');

INSERT INTO BRANCH VALUES('IT','INFORMATION TECHNOLOGY');

INSERT INTO BRANCH VALUES('CH','CHEMICAL ENGINEERING');

INSERT INTO BRANCH VALUES('AR','ARCHITECTURE');

INSERT INTO COLL\_BRANCH VALUES(1,'CSE',120);

INSERT INTO COLL\_BRANCH VALUES(1,'IT',120);

INSERT INTO COLL\_BRANCH VALUES(4,'CSE',120);

INSERT INTO COLL\_BRANCH VALUES(4,'IT',120);

INSERT INTO COLL\_BRANCH VALUES(3,'AR',20);

INSERT INTO COLL\_BRANCH VALUES(2,'CH',30);

SELECT \* FROM COLLEGE;

SELECT \* FROM STUDENT;

SELECT \* FROM COLL\_BRANCH;

SELECT \* FROM BRANCH;

CREATE TABLE ALLOTMENT

(

ROLLNO BIGINT REFERENCES STUDENT(HSCNO) PRIMARY KEY, COLL\_CODE BIGINT, BCODE VARCHAR(5),

FOREIGN KEY(COLL\_CODE, BCODE) REFERENCES COLL\_BRANCH

);

**IN VINI USER:**

CREATE OR REPLACE TRIGGER AVAILABILITY BEFORE INSERT ON ALLOTMENT

FOR EACH ROW

BEGIN

INSERT INTO ALLOTMENT@VTOALINK VALUES (:NEW.ROLLNO,:NEW.COLL\_CODE,:NEW.BCODE);

END;

/

**IN LINI USER:**

CREATE OR REPLACE TRIGGER AVAILABILITY BEFORE INSERT ON ALLOTMENT

FOR EACH ROW

BEGIN

INSERT INTO ALLOTMENT@LTOALINK VALUES (:NEW.ROLLNO,:NEW.COLL\_CODE,:NEW.BCODE);

END;

/

**IN ANI USER:**

CREATE OR REPLACE TRIGGER AVAILABILITY BEFORE INSERT ON ALLOTMENT

FOR EACH ROW

BEGIN

UPDATE COLL\_BRANCH SET NOS=NOS-1 WHERE COLL\_CODE=:NEW.COLL\_CODE

AND BCODE=:NEW.BCODE;

UPDATE COLL\_BRANCH@VINILINK SET NOS=NOS-1 WHERE COLL\_CODE=:NEW.COLL\_CODE

AND BCODE=:NEW.BCODE;

UPDATE COLL\_BRANCH@LINILINK SET NOS=NOS-1 WHERE COLL\_CODE=:NEW.COLL\_CODE

AND BCODE=:NEW.BCODE;

END;

/

**IN LINI USER:**

INSERT INTO ALLOTMENT VALUES (12344,1,'CSE');

COMMIT;

**IN VINI USER:**

INSERT INTO ALLOTMENT VALUES (12345,1,'CSE');

COMMIT;

**IN ANI USER:**

**//THE ABOVE TWO INSERTION WILL BE REFLECTED ON ANI USER**

SELECT \* FROM ALLOTMENT;

