SQL> CREATE TABLE CUSTOMER_23 (NAME VARCHAR(10) PRIMARY KEY, ADDRESS VARCHAR(15));

Table created.

SQL> DESC CUSTOMER_23;

Name	Null?	Туре
NAME	NOT NULL	VARCHAR2(10)
ADDRESS		VARCHAR2(15)

SQL> CREATE TABLE BRANCH_23 (BRANCH_ID VARCHAR(5) PRIMARY KEY, BRANCH_CITY VARCHAR(10));

Table created.

SQL> DESC BRANCH_23;

Name Null? Type

SQL> CREATE TABLE EMPLY_63(ENUMBER VARCHAR(5) PRIMARY KEY, SALARY NUMBER(6), UPDATE_DATE DATE, NET_SALARY NUMBER(6));

Table created.

SQL> DESC EMPLY_63;

Name	Null?	Туре
ENUMBER	NOT NULL	VARCHAR2(5)
SALARY		NUMBER(6)
UPDATE_DATE		DATE
NET_SALARY		NUMBER(6)

SQL> INSERT INTO EMPLY_63(ENUMBER, SALARY) VALUES ('E101', 5000);

1 row created.

SQL> INSERT INTO EMPLY_63(ENUMBER, SALARY) VALUES ('E102', 7000);

1 row created.

Commit complete.

SQL> INSERT INTO EMPLY_63(ENUMBER, SALARY) VALUES ('E103', 12000);

1 row created.

Commit complete.

SQL> INSERT INTO EMPLY_63(ENUMBER, SALARY) VALUES ('E104', 17000);

1 row created.

Commit complete.

SQL> INSERT INTO EMPLY_63(ENUMBER, SALARY) VALUES ('E105', 22000);

1 row created.

Commit complete.

BRANCH_ID NOT NULL VARCHAR2(5)
BRANCH_CITY VARCHAR2(10)

SQL> CREATE TABLE ACCOUNT_23 (NAME VARCHAR(10) REFERENCES CUSTOMER_23(NAME), ACC_NO NUMBER(10) PRIMARY KEY, BALANCE NUMBER(6) CHECK(BALANCE>=500), BRANCH_ID VARCHAR(5) REFERENCES BRANCH_23(BRANCH_ID));

Table created.

SQL> DESC ACCOUNT_23;

Name	Null?	Туре
NAME		VARCHAR2(10)
ACC_NO	NOT NULL	NUMBER(10)
BALANCE		NUMBER(6)
BRANCH ID		VARCHAR2(5)

SQL> INSERT INTO CUSTOMER_23 VALUES('&NAME','&ADDRESS');

Enter value for name: ANIL Enter value for address: TVM

old 1: INSERT INTO CUSTOMER_23 VALUES('&NAME','&ADDRESS')

new 1: INSERT INTO CUSTOMER_23 VALUES('ANIL','TVM')

1 row created.

SQL> SELECT * FROM CUSTOMER_23;

NAME ADDRESS

ANIL TVM

BHEEM KOLLAM BABU WAYANAD RAMESH ALUVA KUMAR THRISSUR

```
SQL> INSERT INTO BRANCH_23 VALUES('&ID','&CITY');
```

Enter value for id: BR123

Enter value for city: ANGAMALY

old 1: INSERT INTO BRANCH_23 VALUES('&ID','&CITY')

new 1: INSERT INTO BRANCH_23 VALUES('BR123','ANGAMALY')

1 row created.

SQL> SELECT * FROM BRANCH_23;

BRANC	BRANCH_CIT
BR123	ANGAMALY
BR234	PUNALOOR
BR345	MANNUTHY
BR432	PUNALOOR
BR785	ANGAMALY
BR429	ANGAMALY

6 rows selected.

bank.sql

```
DECLARE
CNT NUMBER(2);
N CUSTOMER_23.NAME%TYPE;
A CUSTOMER_23.ADDRESS%TYPE;
BR ACCOUNT_23.BRANCH_ID%TYPE;
B ACCOUNT_23.BALANCE%TYPE;
ACCNO ACCOUNT_23.ACC_NO%TYPE;
BEGIN
N := '&NAME';
A:= '&ADDRESS';
ACCNO := SEQ.NEXTVAL;
B := &BALANCE;
BR := '&BRANCH ID';
```

SELECT COUNT(*) INTO CNT FROM CUSTOMER_23 WHERE NAME=N;

IF (CNT = 0) THEN

INSERT INTO CUSTOMER_23 VALUES(N,A);

```
END IF;
     INSERT INTO ACCOUNT_23 VALUES(N,ACCNO,B,BR);
END;
banktrig.sql
CREATE OR REPLACE TRIGGER BANKTRIGGER
BEFORE INSERT ON ACCOUNT 23
FOR EACH ROW
DECLARE
CNT NUMBER(2);
BEGIN
     SELECT COUNT(*) INTO CNT FROM ACCOUNT_23 WHERE NAME=:NEW.NAME;
     IF CNT>=3 THEN
      RAISE_APPLICATION_ERROR(-20001,' ALREADY HAS 3 ACCOUNTS');
     END IF:
END;
OUTPUT
SQL> CREATE SEQUENCE SEQ START WITH 1001 INCREMENT BY 1;
Sequence created.
SQL> @banktrig.sql;
13 /
Trigger created.
SQL> @bank.sql
24 /
Enter value for name: JASON
old 9:
          N := '&NAME';
new 9:
           N := 'JASON';
Enter value for address: THRISSUR
          A:= '&ADDRESS';
old 10:
new 10:
          A:= 'THRISSUR';
```

Enter value for balance: 12000

old 12: B := &BALANCE;

new 12: B := 12000;

Enter value for branch_id: BR345 old 13: BR := '&BRANCH_ID';

new 13: BR := 'BR345';

PL/SQL procedure successfully completed.

Commit complete.

SQL> SELECT * FROM ACCOUNT_23;

SQL> SELECT * FROM CUSTOMER_23;

NAME ADDRESS

ANIL TVM

BHEEM KOLLAM
BABU WAYANAD
RAMESH ALUVA
KUMAR THRISSUR
JASON THRISSUR

6 rows selected.

SQL> @bank.sql

24 /

Enter value for name: ANIL
old 9: N := '&NAME';
new 9: N := 'ANIL';
Enter value for address: TVM

old 10: A:= '&ADDRESS';

new 10: A:= 'TVM';

Enter value for balance: 25000 old 12: B := &BALANCE;

new 12: B := 25000;

Enter value for branch_id: BR234 old 13: BR := '&BRANCH_ID';

new 13: BR := 'BR234';

PL/SQL procedure successfully completed.

Commit complete.

SQL> SELECT * FROM ACCOUNT_23;

SQL> @bank.sql

25 /

Enter value for name: ANIL
old 9: N := '&NAME';
new 9: N := 'ANIL';
Enter value for address: TVM
old 10: A:= '&ADDRESS';

new 10: A:= TVM';

Enter value for balance: 33000 old 12: B := &BALANCE;

new 12: B := 33000;

Enter value for branch_id: BR785 old 13: BR := '&BRANCH_ID';

new 13: BR := 'BR785';

DECLARE

*

ERROR at line 1:

ORA-20001: ALREADY HAS 3 ACCOUNTS

ORA-06512: at "CS27021.BANKTRIGGER", line 6

ORA-04088: error during execution of trigger 'CS27021.BANKTRIGGER'

ORA-06512: at line 22

SQL> SELECT BRANCH_ID,COUNT(BRANCH_ID) FROM ACCOUNT_23 GROUP BY BRANCH_ID HAVING COUNT(BRANCH_ID)=(SELECT MAX(COUNT(BRANCH_ID)) FROM ACCOUNT_23 GROUP BY BRANCH_ID);

BRANC COUNT(BRANCH_ID)
---BR123 2

SQL> SELECT BRANCH_CITY, COUNT(BRANCH_CITY) FROM BRANCH_23 GROUP BY BRANCH_CITY HAVING COUNT(BRANCH_CITY)=(SELECT MAX(COUNT(BRANCH_CITY)) FROM BRANCH_23 GROUP BY BRANCH_CITY);

BRANCH_CIT COUNT(BRANCH_CITY)

ANGAMALY 3