Aim : To create a two-relation database and execute queries against it

Problem Statement : Consider the conceptual and the logical schemata for the Citizen Database.

      PERSON(AadharNo, FName, LName, Gender, BirthDate, BirthCity, Email)

      CONTACT(AadharNo, Phone)

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****

   QUERY-01: Create the relations PERSON and CONTACT with specified constraints.

****

```
    CREATE TABLE PERSON(
    2      AadharNo NUMBER(12) NOT NULL,
    3     FName CHAR(15) NOT NULL,
    4     LName CHAR(15) NOT NULL,
    5     Gender CHAR(1) NOT NULL,
    6     BirthDate DATE NOT NULL,
    7     BirthCity CHAR(15) NOT NULL,
    8     Email VARCHAR2(35),
    9     CONSTRAINT PERSON_PK PRIMARY KEY (AadharNo),
    10    CONSTRAINT PERSON_CK_GENDER CHECK (GENDER IN ('M','F'));
    11     );
```

Table created.

```
    CREATE TABLE CONTACT(
    2    AadharNo NUMBER(12) NOT NULL,
    3    PHONE NUMBER(10) NOT NULL,
    4    CONSTRAINT CONTACT_PK PRIMARY KEY (AadharNo, Phone)
    5    );
```

Table created.

```
    ALTER TABLE CONTACT
    2    ADD
    3    CONSTRAINT CONTACT_FK_PERSON_AadharNo FOREIGN KEY
    4    (AadharNo) REFERENCES PERSON(AadharNo);
```

Table altered.

```
************************************************************************
```
 QUERY-02: List the primary key constraints for the Citizen Database. Your output must include table name, constraint name, constraint type and table owner.
```
************************************************************************
```

```
    SELECT  table_name, constraint_name, constraint_type, owner
  2    FROM user_constraints
  3    WHERE constraint_type='P';
```

```
TABLE_NAME                      CONSTRAINT_NAME               C
------------------------------  ------------------------------ -
OWNER
--------------------------------------------------------------------
CONTACT                         CONTACT_PK                    P
CS5017

PERSON                          PERSON_PK                     P
CS5017
```

```
************************************************************************
```
 QUERY-03: Insert 5-7 tuples into PERSON table.
```
************************************************************************
```
```
    INSERT INTO PERSON VALUES
    (111111111111,'Aniket','Tawani','M',TO_DATE('24/05/2001','DD/MM/YYYY'),'Amra
    vati','anikettawani@gmail.com');
```

1 row created.

```
    INSERT INTO PERSON VALUES
    (222222222222,'Aryan','Tawani','M',TO_DATE('30/06/2001','DD/MM/YYYY'),'Amrav
    ati','aryantawani@gmail.com');
```

1 row created.

```
    INSERT INTO PERSON VALUES
    (333333333333,'Ananya','Tawani','F',TO_DATE('12/05/2001','DD/MM/YYYY'),'Amra
    vati','ananyatawani@gmail.com');
```

1 row created.

```
INSERT INTO PERSON
VALUES(444444444444,'Daksh','Kothari','M',TO_DATE('18/05/2001','DD/MM/YYYY')
,'Nagpur','dakshkothari@gmail.com');
```

1 row created.

```
INSERT INTO PERSON VALUES
(555555555555,'Sumit','Tawani','M',TO_DATE('26/06/1995','DD/MM/YYYY'),'Amrav
ati','sumittawani@gmail.com');
```

1 row created.

```
INSERT INTO PERSON VALUES
(666666666666,'Harsh','Shrirame','M',TO_DATE('06/06/1992','DD/MM/YYYY'),'Nag
pur','harshshrirame@gmail.com');
```

1 row created.

```
INSERT INTO PERSON VALUES
(777777777777,'Bharat','Thakur','M',TO_DATE('01/05/2001','DD/MM/YYYY'),'Yava
tmal','bharatthakur@gmail.com');
```

1 row created.

```
********************************************************************************
 QUERY-04:  Insert 8-12 tuples in CONTACT table
********************************************************************************
       INSERT INTO CONTACT VALUES (111111111111,9111111111);
```

1 row created.

```
       INSERT INTO CONTACT VALUES (111111111111,7222222222);
```

1 row created.

```
       INSERT INTO CONTACT VALUES (2222222222222,933333333);
```

1 row created.

```
       INSERT INTO CONTACT VALUES (333333333333,9444444444);
```

1 row created.

      INSERT INTO CONTACT VALUES (444444444444,9555555555);

1 row created.

      INSERT INTO CONTACT VALUES (555555555555,9666666666);

1 row created.

      INSERT INTO CONTACT VALUES (666666666666,9777777777);

1 row created.

      INSERT INTO CONTACT VALUES (666666666666,9888888888);

1 row created.

      INSERT INTO CONTACT VALUES (777777777777,9999999999);

1 row created.

      INSERT INTO CONTACT VALUES (333333333333,9000000000);

1 row created.

      INSERT INTO CONTACT VALUES (222222222222,9111111112);

1 row created.

      INSERT INTO CONTACT VALUES (555555555555,9111111112);

1 row created.

```
********************************************************************************
  QUERY-05:  Save the database state [COMMIT] and List the contents of the Citizen
Database.
********************************************************************************
```

      COMMIT;

Commit complete.

```
       SELECT *
    2    FROM PERSON;
```

```
AADHARNO FNAME          LNAME          G BIRTHDATE   BIRTHCITY
------------ -------------- -------------- - ----------- ---------------
EMAIL
----------------------------------
111111111111 Aniket        Tawani         M 24-MAY-2001 Amravati
anikettawani@gmail.com


222222222222 Aryan         Tawani         M 30-JUN-2001 Amravati
aryantawani@gmail.com


333333333333 Ananya        Tawani         F 12-MAY-2001 Amravati
ananyatawani@gmail.com



    AADHARNO FNAME          LNAME          G BIRTHDATE   BIRTHCITY
------------ -------------- -------------- - ----------- ---------------
EMAIL
----------------------------------
444444444444 Daksh         Kothari        M 18-MAY-2001 Nagpur
dakshkothari@gmail.com


555555555555 Sumit         Tawani         M 26-JUN-1995 Amravati
sumittawani@gmail.com


666666666666 Harsh         Shrirame       M 06-JUN-2001 Nagpur
harshshrirame@gmail.com



    AADHARNO FNAME          LNAME          G BIRTHDATE   BIRTHCITY
------------ -------------- -------------- - ----------- ---------------
EMAIL
----------------------------------
777777777777 Bharat        Tawani         M 01-MAY-2001 Yavatmal
bharatthakur@gmail.com



7 rows selected.
```

```
       SELECT *
    2     FROM CONTACT;


   AADHARNO        PHONE
------------ ------------
111111111111   9111111111
111111111111   7222222222
222222222222   9333333333
333333333333   9444444444
444444444444   9555555555
555555555555   9666666666
666666666666   9777777777
666666666666   9888888888
777777777777   9999999999
333333333333   9000000000
222222222222   9111111112


   AADHARNO        PHONE
------------ ------------
555555555555   9111111112
```

****
  QUERY-06: List the first name, last name, gender, birth city and email for all
persons
****

```
       SELECT FName,LName,Gender,BirthCity,Email
    2     FROM PERSON;


FNAME           LNAME           G BIRTHCITY
--------------- --------------- - ---------------
EMAIL
----------------------------------
Aniket          Tawani          M Amravati
anikettawani@gmail.com


Aryan           Tawani          M Amravati
aryantawani@gmail.com


Ananya          Tawani          F Amravati
ananyatawani@gmail.com
```

```
FNAME           LNAME           G BIRTHCITY
--------------- --------------- - ---------------
EMAIL
----------------------------------
Daksh           Kothari         M Nagpur
dakshkothari@gmail.com


Sumit           Tawani          M Amravati
sumittawani@gmail.com


Harsh           Shrirame        M Nagpur
harshshrirame@gmail.com



FNAME           LNAME           G BIRTHCITY
--------------- --------------- - ---------------
EMAIL
----------------------------------
Bharat          Thakur          M Yavatmal
bharatthakur@gmail.com


7 rows selected.
```

```
********************************************************************************
  QUERY-07:  List the person name and phone numbers for the person with name as that
of yours
********************************************************************************
      SELECT a.FName, a.LName, b.Phone
        2    from PERSON a, CONTACT b
        3    where a.AadharNo=b.AadharNo and a.FName='Aniket';
```

```
FNAME           LNAME               PHONE
--------------- --------------- ------------
Aniket          Tawani           7222222222
Aniket          Tawani           9111111111
```

```
********************************************************************************
  QUERY-08:  List the contact numbers for your family.
```

```
********************************************************************************
      SELECT  b.Phone
    2    from PERSON a, CONTACT b
    3    where a.AadharNo=b.AadharNo and a.LName='Tawani';


PHONE
------------
9111111111
7222222222
9333333333
9444444444
9666666666
9000000000
9111111112
9111111112



********************************************************************************
 QUERY-09:  List the persons (i.e., last name, first name and birth city)
whose contact is the  mentioned phone number.
********************************************************************************
      SELECT a.LName, a.FName, a.BirthCity
    2    from PERSON a, CONTACT b
    3    where a.AadharNo=b.AadharNo and b.PHONE=9111111112;



LNAME           FNAME           BIRTHCITY
--------------- --------------- ---------------
Tawani          Sumit           Amravati
Tawani          Aryan           Amravati
```