mysql> create database aadhar;

Query OK, 1 row affected (0.02 sec)

mysql> use aadhar;

Database changed

mysql> CREATE TABLE Person (

-> Aadhar\_Number VARCHAR(12) PRIMARY KEY,

-> Name VARCHAR(50),

-> DOB DATE,

-> Gender VARCHAR(10),

-> Nationality VARCHAR(30)

-> );

Query OK, 0 rows affected (0.04 sec)

mysql> CREATE TABLE Address (

-> Address\_ID INT PRIMARY KEY AUTO\_INCREMENT,

-> Aadhar\_Number VARCHAR(12),

-> Street VARCHAR(100),

-> City VARCHAR(50),

-> Pincode VARCHAR(6),

-> FOREIGN KEY (Aadhar\_Number) REFERENCES Person(Aadhar\_Number)

-> );

Query OK, 0 rows affected (0.20 sec)

mysql> CREATE TABLE Phone (

-> Phone\_ID INT PRIMARY KEY AUTO\_INCREMENT,

-> Aadhar\_Number VARCHAR(12),

-> Phone\_Type VARCHAR(10),

-> Phone\_Number VARCHAR(15),

-> FOREIGN KEY (Aadhar\_Number) REFERENCES Person(Aadhar\_Number)

-> );

Query OK, 0 rows affected (0.05 sec)

mysql> INSERT INTO Person (Aadhar\_Number, Name, DOB, Gender, Nationality)

-> VALUES

-> ('123456789012', 'John Doe', '1980-05-15', 'Male', 'Indian'),

-> ('234567890123', 'Jane Smith', '1985-10-20', 'Female', 'Indian'),

-> ('345678901234', 'Alice Brown', '1990-07-25', 'Female', 'Indian');

Query OK, 3 rows affected (0.02 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> INSERT INTO Address (Aadhar\_Number, Street, City, Pincode)

-> VALUES

-> ('123456789012', '123 Baker Street', 'New York', '10001'),

-> ('234567890123', '456 Elm Street', 'Los Angeles', '90001'),

-> ('345678901234', '789 Oak Street', 'Chicago', '60616');

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> INSERT INTO Phone (Aadhar\_Number, Phone\_Type, Phone\_Number)

-> VALUES

-> ('123456789012', 'Mobile', '9876543210'),

-> ('234567890123', 'Mobile', '9876543211'),

-> ('345678901234', 'Home', '9876543222');

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> UPDATE Person

-> SET Nationality = 'American'

-> WHERE Aadhar\_Number = '345678901234';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> DELETE FROM Address

-> WHERE Aadhar\_Number = '345678901234';

Query OK, 1 row affected (0.01 sec)

mysql> START TRANSACTION;

Query OK, 0 rows affected (0.00 sec)

mysql> INSERT INTO Person (Aadhar\_Number, Name, DOB, Gender, Nationality)

-> VALUES ('456789012345', 'Bob Martin', '1982-11-13', 'Male', 'Indian');

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Address (Aadhar\_Number, Street, City, Pincode)

-> VALUES ('456789012345', '101 Maple Ave', 'San Francisco', '94103');

Query OK, 1 row affected (0.00 sec)

mysql> COMMIT;

Query OK, 0 rows affected (0.00 sec)

mysql> START TRANSACTION;

Query OK, 0 rows affected (0.00 sec)

mysql> INSERT INTO Person (Aadhar\_Number, Name, DOB, Gender, Nationality)

-> VALUES ('567890123456', 'Charlie Blue', '1995-09-12', 'Male', 'Indian');

Query OK, 1 row affected (0.00 sec)

mysql> ROLLBACK;

Query OK, 0 rows affected (0.00 sec)

mysql> CREATE VIEW Person\_Address\_View AS

-> SELECT Person.Name, Person.DOB, Address.Street, Address.City, Address.Pincode

-> FROM Person

-> JOIN Address ON Person.Aadhar\_Number = Address.Aadhar\_Number;

Query OK, 0 rows affected (0.01 sec)

mysql> SELECT \* FROM Person\_Address\_View;

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

| Name | DOB | Street | City | Pincode |

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

| John Doe | 1980-05-15 | 123 Baker Street | New York | 10001 |

| Jane Smith | 1985-10-20 | 456 Elm Street | Los Angeles | 90001 |

| Bob Martin | 1982-11-13 | 101 Maple Ave | San Francisco | 94103 |

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

3 rows in set (0.00 sec)

mysql> SELECT Person.Name, Address.Street, Address.City

-> FROM Person

-> INNER JOIN Address ON Person.Aadhar\_Number = Address.Aadhar\_Number;

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

| Name | Street | City |

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

| John Doe | 123 Baker Street | New York |

| Jane Smith | 456 Elm Street | Los Angeles |

| Bob Martin | 101 Maple Ave | San Francisco |

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

3 rows in set (0.00 sec)

mysql> SELECT Person.Name, Phone.Phone\_Number, Phone.Phone\_Type

-> FROM Person

-> LEFT JOIN Phone ON Person.Aadhar\_Number = Phone.Aadhar\_Number;

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

| Name | Phone\_Number | Phone\_Type |

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

| John Doe | 9876543210 | Mobile |

| Jane Smith | 9876543211 | Mobile |

| Alice Brown | 9876543222 | Home |

| Bob Martin | NULL | NULL |

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

4 rows in set (0.00 sec)

mysql> SELECT Phone.Phone\_Number, Phone.Phone\_Type, Person.Name

-> FROM Phone

-> RIGHT JOIN Person ON Phone.Aadhar\_Number = Person.Aadhar\_Number;

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

| Phone\_Number | Phone\_Type | Name |

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

| 9876543210 | Mobile | John Doe |

| 9876543211 | Mobile | Jane Smith |

| 9876543222 | Home | Alice Brown |

| NULL | NULL | Bob Martin |

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

4 rows in set (0.00 sec)

mysql> SELECT Person.Name, Address.Street, Address.City

-> FROM Person

-> LEFT JOIN Address ON Person.Aadhar\_Number = Address.Aadhar\_Number

-> UNION

-> SELECT Person.Name, Address.Street, Address.City

-> FROM Person

-> RIGHT JOIN Address ON Person.Aadhar\_Number = Address.Aadhar\_Number;

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

| Name | Street | City |

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

| John Doe | 123 Baker Street | New York |

| Jane Smith | 456 Elm Street | Los Angeles |

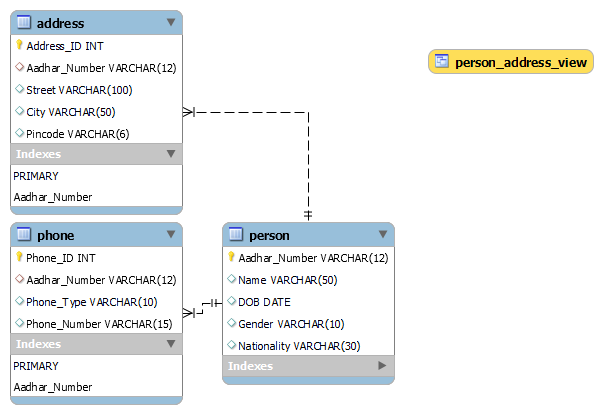
| Alice Brown | NULL | NULL |

| Bob Martin | 101 Maple Ave | San Francisco |

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

4 rows in set (0.00 sec)

**ER DIAGRAM:**



**GITHUB LINK:**

<https://github.com/joeljinjose/2341313_DBMS-Assignment_AadharDatabase.git>