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-- Blood Bank Donation Database Management System
-- A DBMS Project made by Vatsalya Kumar Mishra(2K21/CO/509) and Vicky
Kumar(2K21/C0/513)
-- Creation of 'Bloodbank' database
CREATE DATABASE BLOODBANK;
USE BLOODBANK;
-- Creation of 'BB Manager' table
CREATE TABLE BB_Manager (
   M id int NOT NULL PRIMARY KEY,
   mName varchar(100) NOT NULL,
   m_phNo bigint
);
-- Value insertion
INSERT into BB_Manager
VALUES (101, 'Vatsalya', 9693959671),
    (102, 'Vicky', 9693959672),
    (103, 'Light', 9693959673),
    (104, 'Eren', 9693959674),
    (105, 'Mikasa', 9693959675),
    (106, 'Goku', 9693959676),
    (107, 'Itachi', 9693959677),
    (108, 'Naruto', 9693959678),
    (109, 'Luffy', 9693959679),
    (110, 'Levi', 9693959680);
-- Display table
select *
from BB_Manager;
-- Creation of 'Recording_Staff' table
CREATE TABLE Recording Staff (
    reco_ID int NOT NULL PRIMARY KEY,
   reco_Name varchar(100) NOT NULL,
   reco_phNo bigint
);
-- Value insertion
INSERT into Recording Staff
VALUES (101012, 'Tanjiro', 4044846553),
    (101112, 'Zenitsu', 4045856553),
    (101212, 'Inosuke', 4045806553),
    (101312, 'Mitsuri', 4045806553),
    (101412, 'Nezuko', 4045806553),
    (101512, 'Muzan', 4045806553),
    (101612, 'Akaza', 4045806553),
    (101712, 'Tengen', 4045816553),
    (101812, 'Rengoku', 4045826553),
    (101912, 'Kokushibo', 4045836553);
-- Display table
select *
from Recording Staff;
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CREATE TABLE City (
    City ID int NOT NULL PRIMARY KEY,
    City_name varchar(100) NOT NULL
);
-- Value insertion
INSERT into City
VALUES (1100, 'Asgard'),
    (1200, 'Paradis'),
    (1300, 'Marley'),
    (1400, 'Wakanda'),
    (1500, 'Valhalla'),
    (1600, 'Madripoor'),
    (1700, 'Hogwarts'),
    (1800, 'Sokovia'),
    (1900, 'Kamar-Taj'),
    (2000, 'Gotham');
-- Display table
select *
from City;
-- Creation of 'Blood_Donor' table
CREATE TABLE Blood_Donor (
    bd_ID int NOT NULL PRIMARY KEY,
    bd_name varchar(100) NOT NULL,
    bd age varchar(100),
    bd_sex varchar(100),
    bd_Bgroup varchar(10),
    bd_reg_date date,
    reco_ID int NOT NULL,
    City_ID int NOT NULL,
    FOREIGN KEY(reco_ID) REFERENCES Recording_Staff(reco_ID),
    FOREIGN KEY(City_ID) REFERENCES City(City_ID)
);
-- Value insertion
INSERT into Blood_Donor
VALUES (
        150011,
        'Steven',
        25,
        '2015-07-19',
        101412,
        1100
    ),
        150012,
        'Tony',
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35,
'2015-12-24',
101412,
1100
150013,
'Bruce',
22,
'2015-08-28',
101212,
1200
150014,
'Natasha',
29,
'2015-12-17',
101212,
1300
150015,
'Hermoine',
'2016-11-22',
101212,
1300
150016,
'Harry',
44,
'2016-02-06',
101212,
1200
```

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150017,
        'Sherlock',
        33,
        '2016-10-15',
        101312,
        1400
        150018,
        'Logan',
        31,
        '2016-01-04',
        101312,
        1200
        150019,
        'Peter',
        24,
        'AB+',
        '2016-09-10',
        101312,
        1500
        150020,
        'Odinson',
        29,
        '2016-12-17',
        101212,
        1200
    );
select *
from Blood_Donor;
CREATE TABLE DiseaseFinder (
    dfind_ID int NOT NULL PRIMARY KEY,
    dfind_name varchar(100) NOT NULL,
    dfind_PhNo bigint
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-- Value insertion
INSERT into DiseaseFinder
VALUES (11, 'Indiana', 9693959681),
    (12, 'Stephen', 9693959682),
    (13, 'Christine', 9693959683),
    (14, 'Gwen', 9693959672),
    (15, 'Viktor', 9693959679),
    (16, 'Skywalker', 9693959684),
    (17, 'Julius', 9693959685),
    (18, 'Kratos', 9693959686),
    (19, 'Brutus', 9693959687),
    (20, 'Murdock', 9693959688);
-- Display table
select *
from DiseaseFinder;
-- Creation of 'BloodSpecimen' table
CREATE TABLE BloodSpecimen (
    specimen_number int NOT NULL,
    b_group varchar(10) NOT NULL,
    status int,
    dfind_ID int NOT NULL,
   M_id int NOT NULL,
   primary key (specimen_number, b_group),
    FOREIGN KEY(M_id) REFERENCES BB_Manager(M_id),
    FOREIGN KEY(dfind_ID) REFERENCES DiseaseFinder(dfind_ID)
-- Value insertion
INSERT into BloodSpecimen
VALUES (1001, 'B+', 1, 11, 101),
    (1002, '0+', 1, 12, 102),
    (1003, 'AB+', 1, 11, 102),
    (1004, '0-', 1, 13, 103),
    (1005, 'A+', 0, 14, 101),
    (1006, 'A-', 1, 13, 104),
    (1007, 'AB-', 1, 15, 104),
    (1008, 'AB-', 0, 11, 105),
    (1009, 'B+', 1, 13, 105),
    (1010, '0+', 0, 12, 105),
    (1011, '0+', 1, 13, 103),
    (1012, '0-', 1, 14, 102),
    (1013, 'B-', 1, 14, 102),
    (1014, 'AB+', 0, 15, 101);
-- Display table
Select *
from BloodSpecimen;
-- Creation of 'Hospital_Info_1' table
CREATE TABLE Hospital_Info_1 (
   hosp ID int NOT NULL,
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hosp_name varchar(100) NOT NULL,
    City ID int NOT NULL,
    M id int NOT NULL,
    primary key(hosp_ID),
    FOREIGN KEY(M id) REFERENCES BB Manager(M id),
    FOREIGN KEY(City ID) REFERENCES City(City ID)
);
-- Value insertion
INSERT into Hospital Info 1
VALUES (1, 'Springfield', 1100, 101),
    (2, 'Hampshire', 1200, 103),
    (3, 'Winterfell', 1300, 103),
    (4, 'Riverrun', 1400, 104),
    (5, 'Hogsmeade', 1800, 103),
    (6, 'Greenoaks', 1300, 106),
    (7, 'Forestpark', 1300, 102),
    (8, 'Parkland', 1200, 106),
    (9, 'Pinecreek', 1500, 109),
    (10, 'Alphaville', 1700, 105);
-- Display table
from Hospital_Info_1;
-- Creation of 'Hospital_Info_2' table
CREATE TABLE Hospital_Info_2 (
    hosp_ID int NOT NULL,
    hosp_name varchar(100) NOT NULL,
    hosp_needed_Bgrp varchar(10),
    hosp_needed_qnty int,
    primary key(hosp_ID, hosp_needed_Bgrp)
);
-- Value insertion
INSERT into Hospital Info 2
VALUES (1, 'Springfield', 'A+', 20),
    (1, 'Springfield', 'A-', 0),
    (1, 'Springfield', 'AB+', 40),
    (1, 'Springfield', 'AB-', 10),
    (1, 'Springfield', 'B-', 20),
    (2, 'Hampshire', 'A+', 40),
    (2, 'Hampshire', 'AB+', 20),
    (2, 'Hampshire', 'A-', 10),
    (2, 'Hampshire', 'B-', 30),
    (2, 'Hampshire', 'B+', 0),
    (2, 'Hampshire', 'AB-', 10),
    (3, 'Winterfell', 'A+', 0),
    (3, 'Winterfell', 'AB+', 0),
    (3, 'Winterfell', 'A-', 0),
    (3, 'Winterfell', 'B-', 20),
    (3, 'Winterfell', 'B+', 10),
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(3, 'Winterfell', 'AB-', 0),
    (4, 'Riverrun', 'A+', 10),
(4, 'Riverrun', 'A-', 40),
    (7, 'Forestpark', 'B-', 40),
    (8, 'Parkland', 'B+', 10),
    (9, 'Pinecreek', 'AB-', 20);
select *
from Hospital_Info_2;
-- Creation of 'Recipient' table
CREATE TABLE Recipient (
    reci ID int NOT NULL PRIMARY KEY,
    reci_name varchar(100) NOT NULL,
    reci_age varchar(10),
    reci Brgp varchar(100),
    reci Bqnty float,
    reco_ID int NOT NULL,
    City ID int NOT NULL,
    M_id int NOT NULL,
    FOREIGN KEY(M_id) REFERENCES BB_Manager(M_id),
    FOREIGN KEY(City_ID) REFERENCES City(City_ID)
);
Alter table Recipient
ADD reci_sex varchar(100);
Alter table Recipient
ADD reci_reg_date date;
-- Value insertion
INSERT into Recipient
VALUES (
        10001,
        'Indiana',
        25,
        'B+',
        1.5,
        101212,
        1100,
        101,
        '2015-12-17'
    ),
        10002,
        'Bruce',
        60,
        1,
        101312,
        1100,
```

```
102,
'2015-12-16'
10003,
35,
0.5,
101312,
1200,
102,
'2015-10-17'
10004,
'Stephen',
66,
1,
101212,
1300,
104,
'2016-11-17'
10005,
'Itachi',
53,
'B-',
1,
101412,
1400,
105,
'2015-04-17'
10006,
'Erwin',
45,
1.5,
101512,
1500,
```

```
105,
'2015-12-17'
10007,
'Natasha',
22,
'AB-',
1,
101212,
1500,
101,
'2015-05-17'
10008,
'Julius',
25,
2,
101412,
1300,
103,
'2015-12-14'
10009,
'Hemsworth',
30,
1.5,
101312,
1100,
104,
'2015-02-16'
10010,
'Langford',
25,
3.5,
101212,
1200,
```

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107,
        '2016-10-17'
    );
-- Display table
select *
from Recipient;
-- SAMPLE SQL QUERIES
-- Ouerv 1
CREATE VIEW Blood Recipient SameBGrp AS
select Blood_Donor.bd_name,
    Recipient.reci name,
    reco Name
from Recording_Staff
    inner join Blood Donor on Recording Staff.reco ID = Blood Donor.reco ID
    inner join Recipient on Recording Staff.reco ID = Recipient.reco ID
where Blood_Donor.bd_Bgroup = Recipient.reci_Brgp
    and Blood_Donor.bd_reg_date = Recipient.reci_reg_date;
select *
from Blood Recipient SameBGrp;
-- Query 2
Select specimen_number,
    b_group
from BloodSpecimen,
    DiseaseFinder
WHERE BloodSpecimen.dfind_ID = DiseaseFinder.dfind_ID
    AND dfind_name = 'Gwen'
    AND status = 1;
-- Query 3
select BB_Manager.M_id,
    mName,
    Recipient.reci_name,
    Recipient.reci_Brgp,
    BloodSpecimen.b_group
from BB_Manager,
    Recipient,
    BloodSpecimen
where Recipient.M_id = BloodSpecimen.M_id
    and Recipient.reci_Brgp = BloodSpecimen.b_group
    and Recipient.M_id = BB_Manager.M_id
    and status = 1;
-- Query 4
Select bd_ID,
    bd_name,
    reci_ID,
    reci name
FROM Blood_Donor,
   Recipient
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WHERE bd_Bgroup = reci_Brgp
     AND Blood_Donor.City_ID = Recipient.City_ID;
-- Query 5
Select hosp_ID,
     hosp_name,
     City_ID,
     HOspital_Info_1.M_id
from Hospital_Info_1,
     BB_Manager
where BB_Manager.M_id = Hospital_Info_1.M_id
     and BB_Manager.M_id = 103;
```