**M. Ali. Arslan**

**19F-0348**

**Lab # 08**

**CREATE BLOODBANK TABLE**

CREATE TABLE BLOODBANKLAB(

NAME VARCHAR(35) NOT NULL,

BB\_ID INTEGER NOT NULL UNIQUE,

BB\_ADDRESS VARCHAR(56) NOT NULL,

BB\_DONARNAME VARCHAR(35) NOT NULL,

BB\_CONTACT BIGINT NOT NULL

PRIMARY KEY (BB\_ID));

**CREATE PATIENT TABLE**

CREATE TABLE PATIENTLAB(

NAME VARCHAR(35),

PA\_ID INTEGER NOT NULL UNIQUE,

PA\_AGE INTEGER NOT NULL,

PA\_BGROUP VARCHAR(35) NOT NULL,

PA\_DISEASE VARCHAR(56) NOT NULL,

PA\_CONTACT BIGINT NOT NULL,

BBank\_ID INTEGER NOT NULL,

FOREIGN KEY (BBank\_ID) REFERENCES BLOODBANKLAB(BB\_ID) ON UPDATE CASCADE);

**CREATE DONOR TABLE**

CREATE TABLE DONORLAB(

NAME VARCHAR(35),

DO\_ID INTEGER NOT NULL UNIQUE,

DO\_AGE INTEGER NOT NULL,

DO\_REPORT VARCHAR(56) NOT NULL,

DO\_ADDRESS VARCHAR(56) NOT NULL,

DO\_CONTACT BIGINT NOT NULL,

DO\_BLOODID INTEGER NOT NULL,

PRIMARY KEY (DO\_ID),

FOREIGN KEY (DO\_BLOODID) REFERENCES BLOODBANKLAB(BB\_ID) ON UPDATE CASCADE);

**CREATE BLOOD TABLE**

CREATE TABLE BLOODLAB(

BL\_CODE INTEGER NOT NULL UNIQUE,

BL\_TYPE VARCHAR(15) NOT NULL,

BL\_COST INTEGER NOT NULL,

BL\_DONARID INTEGER NOT NULL,

BL\_BLOODBANKID INTEGER NOT NULL,

PRIMARY KEY(BL\_CODE),

FOREIGN KEY (BL\_DONARID) REFERENCES DONORLAB(DO\_ID) ON UPDATE NO ACTION,

FOREIGN KEY (BL\_BLOODBANKID) REFERENCES BLOODBANKLAB(BB\_ID) ON UPDATE NO ACTION);

**INSERT INTO BLOODBANK TABLE**

**INSERT INTO BLOODBANKLAB VALUES('Ali',0001,'Faisalabad','Ahmed',03345465378);**

**INSERT INTO BLOODBANKLAB VALUES('Ali',0002,'Sahiwal','Shakoor',03456389000);**

**INSERT INTO BLOODBANKLAB VALUES('Alam',0003,'Lahore','Ali',03415466789);**

**INSERT INTO BLOODBANKLAB VALUES('Amna',0004,'Karachi','javed Gul',03123423489);**

**INSERT INTO BLOODBANKLAB VALUES('Saad',0005,'Islamabad','Ayub',03211445551);**

**INSERT INTO PATIENT TABLE**

**INSERT INTO PATIENTLAB VALUES('Imran',0011,26,'O+','Arthritis',03339234847,0005);**

**INSERT INTO PATIENTLAB VALUES('Hassaan',0022,29,'A-','Asthma',03232346435,0003);**

**INSERT INTO PATIENTLAB VALUES('Talha',0033,35,'AB+','Cancer',03093523945,0001);**

**INSERT INTO PATIENTLAB VALUES('Eman',0044,15,'B+','Flu',03033473521,0002);**

**INSERT INTO PATIENTLAB VALUES('Shujaat Ali',0055,40,'B-','Accident',03221456237,0004);**

**INSERT INTO DONOR TABLE**

**INSERT INTO DONORLAB VALUES('Mamnoon',0111,35,'Positive','Lahore',03456783344,0004);**

**INSERT INTO DONORLAB VALUES('Mustafa Haq',0222,27,'Negative','Bannu',03113435678,0005);**

**INSERT INTO DONORLAB VALUES('Musfira',0333,60,'Positive','Okara',03154532223,0003);**

**INSERT INTO DONORLAB VALUES('Shakoor',0444,36,'Negative','Karachi',03343243653,0001);**

**INSERT INTO DONORLAB VALUES('Alia Alvi',0555,47,'Positive','Karachi',03125487969,0002);**

**INSERT INTO BLOOD TABLE**

**INSERT INTO BLOODLAB VALUES(7777,'B+',3700,0111,0002);**

**INSERT INTO BLOODLAB VALUES(8888,'B-',1000,0444,0004);**

**INSERT INTO BLOODLAB VALUES(4444,'A-',2500,0222,0003);**

**INSERT INTO BLOODLAB VALUES(6666,'AB+',3700,0555,0001);**

**INSERT INTO BLOODLAB VALUES(5555,'O+',1200,0333,0005);**

**Task 1.1**

* ALTER TABLE BLOODBANKLAB ALTER COLUMN BB\_ADDRESS INTEGER;
* ALTER TABLE PATIENTLAB ALTER COLUMN PA\_AGE VARCHAR(25);
* ALTER TABLE PATIENTLAB ADD PA\_TABE VARCHAR(25);
* ALTER TABLE PATIENTLAB DROP COLUMN NEWTABLLE;

**Task 1.2**

**Task 1.3**

* UPDATE BLOODLAB SET BL\_COST=1500 WHERE (BL\_COST=400 OR BL\_COST=1000);
* UPDATE DONORLAB SET DO\_AGE=35 WHERE DO\_AGE=40

**Task 1.4**

* DELETE FROM BLOODLAB WHERE BL\_CODE=5555;
* DELETE FROM PATIENTLAB WHERE PA\_ID=0011;

**Task 1.5**