Project Deliverable 2

SQL STATEMENTS FOR DATABASE:

*--Patient Table*

CREATE TABLE Patient(

    pat\_num NUMBER PRIMARY KEY,

    name VARCHAR(20) NOT NULL,

    DOB date NOT NULL,

    allergies VARCHAR(50),

    bloodType VARCHAR(2) NOT NULL,

    address VARCHAR(100) NOT NULL

);

*--Correct*

INSERT INTO PATIENT (PAT\_NUM, NAME, DOB, ALLERGIES, BLOODTYPE, ADDRESS) VALUES (1, 'Aaron', '17-SEP-2002', 'Peach', 'AA', 'Cocorite');

INSERT INTO PATIENT (PAT\_NUM, NAME, DOB, ALLERGIES, BLOODTYPE, ADDRESS) VALUES (2, 'Jonathan', '17-JAN-2005', 'Banana', 'B', 'St. James');

INSERT INTO PATIENT (PAT\_NUM, NAME, DOB, ALLERGIES, BLOODTYPE, ADDRESS) VALUES (3, 'Josiah', '19-Jul-2002', null, 'A', 'POS');

INSERT INTO PATIENT (PAT\_NUM, NAME, DOB, ALLERGIES, BLOODTYPE, ADDRESS) VALUES (4, 'Shannon', '29-Sep-1984', null, 'A', 'POS');

INSERT INTO PATIENT (PAT\_NUM, NAME, DOB, ALLERGIES, BLOODTYPE, ADDRESS) VALUES (5, 'Alex', '1-Sep-1984', null, 'B', 'POS');

*--Appointment Bridge Table*

CREATE TABLE Appointment (

    appID NUMBER PRIMARY KEY,

    pat\_num NUMBER,

    time DATE,

    particular VARCHAR(100),

    FOREIGN KEY(pat\_num) REFERENCES Patient(pat\_num)

);

INSERT INTO Appointment (APPID, PAT\_NUM, TIME, PARTICULAR) VALUES (1, 1,  '1-JAN-2022',  'Sick');

INSERT INTO Appointment (APPID, PAT\_NUM,TIME, PARTICULAR) VALUES (2, 2,'2-JAN-2022', 'Ingury');

INSERT INTO Appointment (APPID, PAT\_NUM, TIME, PARTICULAR) VALUES (3, 3,  '5-JUL-2022', 'Chest pain');

INSERT INTO Appointment (APPID, PAT\_NUM, TIME, PARTICULAR) VALUES (4, 4,  '15-JUL-2022', 'Cough');

INSERT INTO Appointment (APPID, PAT\_NUM, TIME, PARTICULAR) VALUES (5, 5,  '15-JUL-2022', 'Visit');

*--STAFF Table <<SUPER CLASS>>*

CREATE TABLE Staff(

    staffID NUMBER NOT NULL PRIMARY KEY,

    name VARCHAR(20) NOT NULL,

    type VARCHAR(25)  NOT NULL,

    address VARCHAR(50)  NOT NULL,

    department VARCHAR(20)  NOT NULL,

    appID NUMBER,

    FOREIGN KEY(appID) REFERENCES Appointment(appID)

);

INSERT INTO staff (STAFFID, NAME, TYPE, ADDRESS, DEPARTMENT, APPID) VALUES (1, 'Donald', 'Doctor', 'Cocorite', 'HR', 1);

INSERT INTO staff (STAFFID, NAME, TYPE, ADDRESS, DEPARTMENT, APPID) VALUES (2, 'Trump', 'Nurse', 'POS', 'HVC', 2);

INSERT INTO staff (STAFFID, NAME, TYPE, ADDRESS, DEPARTMENT, APPID) VALUES (3, 'Jake', 'Lab Technician', 'Cocorite', 'I.T', NULL);

INSERT INTO staff (STAFFID, NAME, TYPE, ADDRESS, DEPARTMENT, APPID) VALUES (4, 'Paul', 'Therapist', 'Cocorite', 'Therapy', 4);

INSERT INTO staff (STAFFID, NAME, TYPE, ADDRESS, DEPARTMENT, APPID) VALUES (5, 'Dona', 'CSR', 'San Fernanao', 'Accounting', 5);

INSERT INTO staff (STAFFID, NAME, TYPE, ADDRESS, DEPARTMENT, APPID) VALUES (6, 'Sharon', 'X-Ray Technician', 'Cocorite', 'I.T', NULL);

*--CSR Table <<SUB CLASS OF STAFF>>*

CREATE TABLE CSR(

    staffID NUMBER PRIMARY KEY NOT NULL,

    FOREIGN KEY(staffID) REFERENCES STAFF(staffID)

);

INSERT INTO CSR VALUES(5);

*--Creating foreign key staffID in appointment table*

ALTER TABLE Appointment

ADD (

StaffID NUMBER,

CSR\_ID NUMBER,

FOREIGN KEY(StaffID) REFERENCES Staff(StaffID),

FOREIGN KEY(CSR\_ID) REFERENCES CSR(StaffID)

);

UPDATE Appointment

SET staffid = 1

WHERE APPID = 1;

UPDATE Appointment

SET staffid = 2

WHERE APPID = 2;

UPDATE Appointment

SET staffid = 3

WHERE APPID = 3;

UPDATE Appointment

SET staffid = 1

WHERE APPID = 4;

UPDATE Appointment

SET staffid = 1

WHERE APPID = 5;

UPDATE Appointment

SET CSR\_ID = 5

WHERE APPID= 1;

UPDATE Appointment

SET CSR\_ID = 5

WHERE APPID= 2;

UPDATE Appointment

SET CSR\_ID = 5

WHERE APPID= 3;

UPDATE Appointment

SET CSR\_ID = 5

WHERE APPID= 4;

UPDATE Appointment

SET CSR\_ID = 5

WHERE APPID= 5;

*--Doctor Table <<SUB CLASS OF STAFF>>*

CREATE TABLE DOCTOR(

    staffID NUMBER PRIMARY KEY NOT NULL,

    FOREIGN KEY(staffID) REFERENCES STAFF(staffID)

);

*--Nurse Table <<SUB CLASS OF STAFF>>*

CREATE TABLE NURSE(

    staffID NUMBER PRIMARY KEY NOT NULL,

    FOREIGN KEY(staffID) REFERENCES STAFF(staffID)

);

*--Technician Table <<SUB CLASS OF STAFF AND SUPER CLASS OF LAB AND X-RAY>>*

CREATE TABLE Technician(

    staffID NUMBER NOT NULL,

    FOREIGN KEY(staffID) REFERENCES STAFF(staffID)

);

CREATE TABLE Lab(

     staffID NUMBER NOT NULL,

    FOREIGN KEY(staffID) REFERENCES STAFF(staffID)

);

CREATE TABLE XRay(

    staffID NUMBER NOT NULL,

    FOREIGN KEY(staffID) REFERENCES STAFF(staffID)

);

*--Therapist Table <<SUB CLASS OF STAFF>>*

CREATE TABLE Therapist(

    staffID NUMBER PRIMARY KEY NOT NULL,

    FOREIGN KEY(staffID) REFERENCES STAFF(staffID)

);

INSERT INTO DOCTOR VALUES (1);

INSERT INTO NURSE VALUES (2);

INSERT INTO Lab VALUES (3);

INSERT INTO Therapist VALUES (4);

INSERT INTO XRAY VALUES (6);

*--RAUSHAWN CODE*

CREATE TABLE DRUG(

AMOUNT NUMBER(20),

INTAKE VARCHAR(20),

COST NUMBER(20),

PAT\_NUM NUMBER,

FOREIGN KEY(PAT\_NUM) REFERENCES Patient(PAT\_NUM)

);

*--Correct*

INSERT INTO DRUG (amount,intake,cost, pat\_num) VALUES(20,'twice a day',50, 1);

INSERT INTO DRUG (amount,intake,cost, pat\_num) VALUES(50,'three times a week',20, 2);

INSERT INTO DRUG (amount,intake,cost, pat\_num) VALUES(10,'once a day',30, 3);

     CREATE TABLE SERVICE(

    SERVE\_TYPE VARCHAR(20),

    UNITCOST NUMBER(20),

    PAT\_NUM NUMBER,

    PRIMARY KEY(SERVE\_TYPE),

    FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(pat\_num)

    );

        CREATE TABLE PEDIATRIC(

        SERVE\_TYPE VARCHAR(20),

        WORKER VARCHAR(20),

        PAT\_NUM NUMBER,

        FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

        FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

        );

        CREATE TABLE GENERAL(

        SERVE\_TYPE VARCHAR(20),

        WORKER VARCHAR(20),

        PAT\_NUM NUMBER,

        FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

        FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

        );

        CREATE TABLE PRACTICE(

        SERVE\_TYPE VARCHAR(20),

        WORKER VARCHAR(20),

        PAT\_NUM NUMBER,

        FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

        FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

        );

        CREATE TABLE X\_RAY(

        SERVE\_TYPE VARCHAR(20),

        WORKER VARCHAR(20),

        PAT\_NUM NUMBER,

        FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

        FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

        );

        CREATE TABLE SPECIALIST(

        SERVE\_TYPE VARCHAR(20),

        WORKER VARCHAR(20),

        PAT\_NUM NUMBER,

        FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

        FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

        );

        CREATE TABLE LABORATORY(

        SERVE\_TYPE VARCHAR(20),

        WORKER VARCHAR(20),

        PAT\_NUM NUMBER,

        FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

        FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

        );

        CREATE TABLE THERAPY(

        SERVE\_TYPE VARCHAR(20),

        WORKER VARCHAR(20),

        PAT\_NUM NUMBER,

        FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

        FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

        );

INSERT INTO SERVICE (serve\_type, unitcost, pat\_num) VALUES ('Therapist', 150, 1);

INSERT INTO SERVICE (serve\_type, unitcost, pat\_num) VALUES ('Laboratory', 300, 2);

INSERT INTO SERVICE (serve\_type, unitcost, pat\_num) VALUES ('General', 50, 3);

INSERT INTO SERVICE (serve\_type, unitcost, pat\_num) VALUES ('Pediatric', 200, 4);

INSERT INTO SERVICE (serve\_type, unitcost, pat\_num) VALUES ('Xray', 500,  5);

INSERT INTO SERVICE (serve\_type, unitcost, pat\_num) VALUES ('Practice', 0,  5);

INSERT INTO SERVICE (serve\_type, unitcost, pat\_num) VALUES ('Specialist', 300,  3);

INSERT INTO PEDIATRIC VALUES ('Pediatric', 'Jake', 2);

INSERT INTO GENERAL VALUES ('General', 'Hanner', 3);

INSERT INTO PRACTICE VALUES ('Practice', 'Kate', 1);

INSERT INTO X\_RAY VALUES ('Xray', 'Paul', 5);

INSERT INTO SPECIALIST VALUES ('Specialist', 'Pete', 4);

INSERT INTO LABORATORY VALUES ('Laboratory', 'Dr. Frank', null);

INSERT INTO THERAPY VALUES ('Therapist', 'Dr. Bob', null);

CREATE TABLE INVOICE(

INVOICEID NUMBER,

SERVE\_TYPE VARCHAR(20),

COST NUMBER(20),

PAT\_NUM NUMBER,

PRIMARY KEY(INVOICEID),

FOREIGN KEY(SERVE\_TYPE) REFERENCES SERVICE(SERVE\_TYPE),

FOREIGN KEY(PAT\_NUM) REFERENCES PATIENT(PAT\_NUM)

);

*--Correct*

INSERT INTO INVOICE  VALUES(1,'Therapist',200, 1);

INSERT INTO INVOICE  VALUES(2,'Xray',100, 2);

INSERT INTO INVOICE  VALUES(3,'Specialist',150, 3);

INSERT INTO INVOICE  VALUES(4,'Pediatric',450, 4);

INSERT INTO INVOICE  VALUES(5,'General',650, 5);

CREATE TABLE TREATMENT(

INVOICEID NUMBER,

FOREIGN KEY(INVOICEID) REFERENCES INVOICE(INVOICEID));

*--Correct*

INSERT INTO treatment (INVOICEID) VALUES(1);

INSERT INTO treatment (INVOICEID) VALUES(2);

INSERT INTO treatment (INVOICEID) VALUES(3);

INSERT INTO treatment (INVOICEID) VALUES(4);

INSERT INTO treatment (INVOICEID) VALUES(5);

Relational Database Model

Table

Description automatically generated

ERD DIAGRAM

