create table personnel(

personnel\_ID int(5) NOT NULL,

pFirstName varchar(15),

pLastName varchar(15),

pBirthDate date,

pContract tinyint,

CONSTRAINT pk\_personnel PRIMARY KEY(personnel\_ID)

);

create table phone(

personnel\_ID int(5) NOT NULL,

phoneType varchar(15) NOT NULL,

phoneNumber char(12) NOT NULL,

CONSTRAINT pk\_phone PRIMARY KEY(personnel\_ID, phoneType, phoneNumber),

CONSTRAINT fk\_phone FOREIGN KEY(personnel\_ID) REFERENCES personnel(personnel\_ID)

);

create table skills(

varSkill varchar(50) NOT NULL,

CONSTRAINT pk\_skills PRIMARY KEY(varSkill)

);

#start volunteer Branch

create table volunteer(

volunteer\_ID int(5) NOT NULL,

vSkillList varchar(100),

CONSTRAINT pk\_volunteer PRIMARY KEY(volunteer\_ID),

CONSTRAINT fk\_volunteer FOREIGN KEY(volunteer\_ID) REFERENCES personnel(personnel\_ID)

);

create table volunteer\_skills(

volunteer\_ID int(5) NOT NULL,

vSkill varchar(50) NOT NULL,

CONSTRAINT pk\_volunteer\_skills PRIMARY KEY(volunteer\_ID, vSkill),

CONSTRAINT fk\_volunteer\_skills\_ID FOREIGN KEY(volunteer\_ID) REFERENCES volunteer(volunteer\_ID),

CONSTRAINT fk\_volunteer\_skills\_skill FOREIGN KEY(vSkill) REFERENCES skills(varSkill)

);

#end volunteer branch

create table employee(

employee\_ID int(5) NOT NULL,

eHireDate date,

CONSTRAINT pk\_volunteer PRIMARY KEY(employee\_ID),

CONSTRAINT fk\_employee FOREIGN KEY(employee\_ID) REFERENCES personnel(personnel\_ID)

);

#start technician branch

create table technician(

technician\_ID int(5) NOT NULL,

CONSTRAINT pk\_technician PRIMARY KEY(technician\_ID),

CONSTRAINT fk\_technician FOREIGN KEY(technician\_ID) REFERENCES employee(employee\_ID)

);

create table technician\_skills(

technician\_ID int(5) NOT NULL,

tSkill varchar(50) NOT NULL,

CONSTRAINT pk\_technician\_skills PRIMARY KEY(technician\_ID, tSkill),

CONSTRAINT fk\_technician\_skills\_ID FOREIGN KEY(technician\_ID) REFERENCES technician(technician\_ID),

CONSTRAINT fk\_technician\_skills\_skill FOREIGN KEY(tSkill) REFERENCES skills(varSkill)

);

create table laboratory(

labName varchar(50) NOT NULL,

labLocation varchar(50) NOT NULL,

CONSTRAINT pk\_laboratoy PRIMARY KEY(labName, labLocation)

);

create table assignmentTypes(

aType varchar(30) NOT NULL,

CONSTRAINT pk\_assignmentTypes PRIMARY KEY(aType)

);

create table assignment(

technician\_ID int(5) NOT NULL,

labName varchar(50) NOT NULL,

labLocation varchar(50) NOT NULL,

aType varchar(30),

CONSTRAINT pk\_assignment PRIMARY KEY(technician\_ID, labName, labLocation),

CONSTRAINT fk\_assignment\_tech FOREIGN KEY(technician\_ID) REFERENCES technician(technician\_ID),

CONSTRAINT fk\_assignment\_lab FOREIGN KEY(labName, labLocation) REFERENCES laboratory(labName, labLocation),

CONSTRAINT fk\_assignment\_type FOREIGN KEY(aType) REFERENCES assignmentTypes(aType)

);

#end technician branch

#start nurse branch

create table nCertificates(

nCertificate varchar(10) NOT NULL,

CONSTRAINT pk\_nCertificates PRIMARY KEY(nCertificate)

);

create table nurse(

nurse\_ID int(5) NOT NULL,

nurseCenter varchar(30),

nCertificate varchar(10),

CONSTRAINT pk\_nurse PRIMARY KEY(nurse\_ID),

CONSTRAINT fk\_nurse\_emp FOREIGN KEY(nurse\_ID) REFERENCES employee(employee\_ID),

CONSTRAINT fk\_nurse\_cert FOREIGN KEY(nCertificate) REFERENCES nCertificates(nCertificate)

);

create table nurse\_skills(

nurse\_ID int(5) NOT NULL,

nSkill varchar(50) NOT NULL,

CONSTRAINT pk\_nurse\_skills PRIMARY KEY(nurse\_ID, nSkill),

CONSTRAINT fk\_nurse\_skills\_ID FOREIGN KEY(nurse\_ID) REFERENCES nurse(nurse\_ID),

CONSTRAINT fk\_nurse\_skills\_skill FOREIGN KEY(nSkill) REFERENCES skills(varSkill)

);

create table registeredNurse(

registeredNurse\_ID int(5) NOT NULL,

CONSTRAINT pk\_registeredNurse PRIMARY KEY(registeredNurse\_ID),

CONSTRAINT fk\_registeredNurse FOREIGN KEY(registeredNurse\_ID) REFERENCES nurse(nurse\_ID)

);

#end nurse branch

#start physician branch

create table physician(

physician\_ID int(5) NOT NULL,

pSpecialty varchar(15),

pPager char(12),

CONSTRAINT pk\_physician PRIMARY KEY(physician\_ID),

CONSTRAINT fk\_physician FOREIGN KEY(physician\_ID) REFERENCES personnel(personnel\_ID)

);

#end physician branch

#start Staff branch

create table staff(

staff\_ID int(5) NOT NULL,

sJob varchar(150),

CONSTRAINT pk\_staff PRIMARY KEY(staff\_ID),

CONSTRAINT fk\_staff FOREIGN KEY(staff\_ID) REFERENCES employee(employee\_ID)

);

create table custodian(

custodian\_ID int(5) NOT NULL,

CONSTRAINT pk\_custodian PRIMARY KEY(custodian\_ID),

CONSTRAINT fk\_custodian FOREIGN KEY(custodian\_ID) REFERENCES staff(staff\_ID)

);

create table custodian\_skills(

custodian\_ID int(5) NOT NULL,

cSkill varchar(15) NOT NULL,

CONSTRAINT pk\_custodian\_skills PRIMARY KEY(custodian\_ID,cSkill),

CONSTRAINT fk\_custodian\_staff FOREIGN KEY(custodian\_ID) REFERENCES staff(staff\_ID),

CONSTRAINT fk\_custodian\_skill FOREIGN KEY(cSkill) REFERENCES skills(varSkill)

);

create table nurseStudent(

nurseStudent\_ID int(5) NOT NULL,

nlnSituation varchar(15),

CONSTRAINT pk\_nurseStudent PRIMARY KEY(nurseStudent\_ID),

CONSTRAINT fk\_nurseStudent FOREIGN KEY(nurseStudent\_ID) REFERENCES staff(staff\_ID)

);

create table nurseStudent\_skill(

nurseStudent\_ID int(5) NOT NULL,

nSkill varchar(50) NOT NULL,

CONSTRAINT pk\_nurseStudent\_skills PRIMARY KEY(nurseStudent\_ID, nSkill),

CONSTRAINT fk\_nurseStudent\_staff FOREIGN KEY(nurseStudent\_ID) REFERENCES nurseStudent(nurseStudent\_ID),

CONSTRAINT fk\_nurseStudent\_skill FOREIGN KEY(nSkill) REFERENCES skills(varSkill)

);

create table physicianAssistant(

physicianAssistant\_ID int(5) NOT NULL,

physician\_ID int(5) NOT NULL,

CONSTRAINT pk\_physicianAssistant PRIMARY KEY(physicianAssistant\_ID, physician\_ID),

CONSTRAINT fk\_physicianAssistant\_staff FOREIGN KEY(physicianAssistant\_ID) REFERENCES staff(staff\_ID),

CONSTRAINT fk\_physicianAssistant\_phys FOREIGN KEY(physician\_ID) REFERENCES physician(physician\_ID)

);

#end staff branch

#start patient branch

create table patient(

patient\_ID int(5) NOT NULL,

pContactDate date,

pPhysicianInCharge int(5) NOT NULL,

CONSTRAINT pk\_patient PRIMARY KEY (patient\_ID),

CONSTRAINT fk\_patient FOREIGN KEY(patient\_ID) REFERENCES personnel(personnel\_ID),

CONSTRAINT fk\_patient\_physician FOREIGN KEY(pPhysicianInCharge) REFERENCES physician(physician\_ID)

);

create table symptoms(

symptom varchar(15) NOT NULL,

CONSTRAINT pk\_symptoms PRIMARY KEY(symptom)

);

create table patientSymptoms(

patient\_ID int(5) NOT NULL,

pSymptom varchar(15) NOT NULL,

CONSTRAINT pk\_patientSymptoms PRIMARY KEY(patient\_ID, pSymptom),

CONSTRAINT fk\_patient\_ID FOREIGN KEY(patient\_ID) REFERENCES patient(patient\_ID),

CONSTRAINT fk\_symptoms FOREIGN KEY(pSymptom) REFERENCES symptoms(symptom)

);

create table outpatient(

patient\_ID int(5) NOT NULL,

oEatenToday boolean,

CONSTRAINT pk\_outpatient PRIMARY KEY(patient\_ID),

CONSTRAINT fk\_outpatient FOREIGN KEY(patient\_ID) REFERENCES patient(patient\_ID)

);

create table visit(

patient\_ID int(5) NOT NULL,

physician\_ID int(5) NOT NULL,

vDate date,

vComment varchar(100),

CONSTRAINT pk\_visit PRIMARY KEY(patient\_ID, physician\_ID, vDate),

CONSTRAINT fk\_visit\_phy FOREIGN KEY(physician\_ID) REFERENCES physician(physician\_ID),

CONSTRAINT fk\_visit\_pat FOREIGN KEY(patient\_ID) REFERENCES outpatient(patient\_ID)

);

create table resident(

patient\_ID int(5) NOT NULL,

rAdmitDate date,

CONSTRAINT pk\_resident PRIMARY KEY(patient\_ID),

CONSTRAINT fk\_resident FOREIGN KEY(patient\_ID) REFERENCES patient(patient\_ID)

);

#end patient branch

#start care center branch

create table centerTypes(

centerType varchar(20) NOT NULL,

CONSTRAINT pk\_centerTypes PRIMARY KEY(centerType)

);

create table careCenter(

centerType varchar(20) NOT NULL,

centerName varchar(30) NOT NULL,

centerLocation varchar(15) NOT NULL,

nurse\_ID int(5),

CONSTRAINT pk\_careCenter PRIMARY KEY(centerName),

CONSTRAINT fk\_careCenter\_type FOREIGN KEY(centerType) REFERENCES centerTypes(centerType),

CONSTRAINT fk\_careCenter\_nurse FOREIGN KEY(nurse\_ID) REFERENCES registeredNurse(registeredNurse\_ID)

);

create table room(

centerName varchar(30) NOT NULL,

roomNumber int(3) NOT NULL,

CONSTRAINT pk\_room PRIMARY KEY(centerName,roomNumber),

CONSTRAINT fk\_room FOREIGN KEY(centerName) REFERENCES careCenter(centerName)

);

create table bed(

patient\_ID int(5),

centerName varchar(30) NOT NULL,

roomNumber int(3) NOT NULL,

bedNumber int(2) NOT NULL,

CONSTRAINT pk\_bed PRIMARY KEY(centerName,RoomNumber,bedNumber),

CONSTRAINT fk\_bed\_room FOREIGN KEY(centerName, roomNumber) REFERENCES room(centerName, roomNumber),

CONSTRAINT fk\_bed\_pat FOREIGN KEY(patient\_ID) REFERENCES patient(patient\_ID)

);

#end care center branch

/\*ADDING VALUES INTO THE TABLES\*/

--PERSONNEL

insert into personnel values (00001, 'Hilary', 'Banks', '1990-01-01', '1'); --volunteer

insert into personnel values (00002, 'Carlton', 'Banks', '1990-01-01', '1'); --volunteer

Insert into personnel values(70707,'Danny','Olivera','2016-01-07','0');--volunteer

insert into personnel values (66666, 'Bob', 'Smith', '2011-02-02', '0'); --employee (technician)

insert into personnel values (77777, 'Alice', 'Doe', '1990-08-20', '1'); --employee (technician)

insert into personnel values (88888, 'Max', 'Smith', '2000-01-17', '0'); --employee (technician)

insert into personnel values (81818, 'Ice', 'Tea', '2002-02-02', '0'); --employee (technician)

insert into personnel values (11111, 'John', 'Doe', '1990-01-01', '1'); --employee (nurse)

insert into personnel values (22222, 'Jane', 'Smith', '2000-02-02', '0'); --employee (nurse)

insert into personnel values (33333, 'Ben', 'Doe', '1994-03-03', '1'); --employee (nurse)

insert into personnel values (44444, 'Jessie', 'Smith', '2003-04-04', '0'); --employee (nurse)

insert into personnel values (55555, 'James', 'Doe', '1992-01-01', '1'); --employee (nurse)

insert into personnel values (55556, 'Joe', 'Brown', '1988-12-05', '1'); --employee (nurse)

insert into personnel values (55213, 'Sal', 'Garcia', '1954-12-13', '0'); --employee (nurse) (RN)

insert into personnel values (55333, 'Drew', 'Kim', '1960-09-05', '1'); --employee (nurse) (RN)

insert into personnel values (12321, 'Pam', 'Pim', '1970-11-05', '1'); --employee (nurse) (RN)

insert into personnel values (99999, 'Michelle', 'Doe', '1998-10-10', '1'); --employee (staff) (NS)

insert into personnel values (74125, 'Jack', 'Smith', '1988-02-02', '0'); --employee (staff) (NS)

insert into personnel values (78965, 'Alice', 'Hilton', '1980-08-20', '1'); --employee (staff) (CUS)

insert into personnel values (25635, 'Max', 'Bay', '1978-01-17', '0'); --employee (staff) (CUS)

insert into personnel values (95123, 'Drea', 'Hilton', '1988-10-10', '1'); --employee (staff) (PA)

insert into personnel values (56237, 'Jack', 'Black', '1982-09-19', '1'); --employee (staff) (PA)

insert into personnel values (85205, 'Austin', 'Vu', '1989-06-20', '0'); --employee (staff) (PA)

insert into personnel values (09578, 'Grace', 'King', '1959-05-13', '0'); --employee (staff) (PA)

insert into personnel values (78520, 'James', 'White', '1983-02-02', '0'); --physician

insert into personnel values (25914, 'Jamie', 'Green', '1973-12-08', '0'); --physician

insert into personnel values (12345, 'Alex', 'Smith', '2000-11-02', '0'); --patient (outpatient)

insert into personnel values (54321, 'Sarah', 'Doe', '1999-09-19', '1'); --patient (outpatient)

insert into personnel values (12121, 'John', 'Smith', '2002-02-02', '0'); --patient (outpatient)

insert into personnel values (48625, 'Allie', 'Cole', '1977-11-02', '0'); --patient (resident)

insert into personnel values (75357, 'Sarah', 'Black', '1982-09-19', '1'); --patient (resident)

insert into personnel values (95102, 'John', 'White', '1983-02-02', '0'); --patient (resident)

insert into personnel values (80800, 'George', 'Rhee', '1990-02-06', '0'); --patient (outpatient)

--PHONE

insert into phone values (11111, 'mobile', '562-578-9908');

insert into phone values (11111, 'home', '562-670-8890');

insert into phone values (22222, 'mobile', '714-245-0056');

insert into phone values (33333, 'mobile', '714-678-3467');

insert into phone values (44444, 'home', '714-789-0098');

insert into phone values (55555, 'mobile', '562-990-8890');

insert into phone values (66666, 'mobile', '818-220-6750');

insert into phone values (66666, 'home', '818-669-3433');

insert into phone values (77777, 'home', '562-990-6788');

insert into phone values (88888, 'mobile', '714-898-0774');

insert into phone values (55333, 'mobile', '302-907-6278');

insert into phone values (55213, 'mobile', '714-818-7774');

--SKILLS

insert into skills values ('Cleaning');

insert into skills values ('Computers');

insert into skills values ('Blood Transfer');

insert into skills values ('Organizing');

insert into skills values ('Diet');

insert into skills values ('Nutrition');

insert into skills values ('Heart');

insert into skills values ('Brain');

insert into skills values ('Transplant');

insert into skills values ('Surgery');

insert into skills values ('Filing');

insert into skills values ('Mail Sorting');

insert into skills values ('Making Copies');

insert into skills values ('Answering Phones');

insert into skills values ('Restocking Medical Supplies');

insert into skills values ('Conducting Chemical Analysis of Body Fluids');

insert into skills values ('Analyzing Test Results of Experiments');

insert into skills values ('Set Up Lab Equipment');

insert into skills values ('Clean Lab Equipment');

insert into skills values ('Calibrate Lab Equipment');

insert into skills values ('Test Sterility of Lab Equipment');

Insert into skills values ('Bathing Patients');

Insert into skills values ('Making Beds');

Insert into skills values ('Performing Oral Care for Unconscious Patients');

Insert into skills values ('Administering a Tube Feeding');

Insert into skills values ('Catheterizing the Female Urine Bladder');

Insert into skills values ('Catheterizing the Male Urine Bladder');

Insert into skills values ('Moving and Positioning Patients in Bed');

Insert into skills values ('Adding Meds to IV Solution');

Insert into skills values ('Applying Elastic Bandages');

Insert into skills values ('Administering a Blood Transfusion');

Insert into skills values ('Observing/Recording Patient Behaviors');

Insert into skills values ('Monitoring Changes in Patient Conditions');

Insert into skills values ('Providing Instant Care During Medical Emergencies');

Insert into skills values ('Diagnosing Diseases');

Insert into skills values ('Carrying Out Requisite Treatments and Medications');

insert into skills values ('Taking Blood Pressures');

insert into skills values ('Drawing Blood');

insert into skills values ('Draw Up/Mix Insulin');

insert into skills values ('Taking Pulses');

insert into skills values ('Start IVs');

insert into skills values ('Clean Rooms');

insert into skills values ('Clean Halls');

insert into skills values ('Clean Bathrooms');

--VOLUNTEER

insert into volunteer values (00001, '');

insert into volunteer values (00002, '');

Insert into volunteer values(70707,'');

insert into volunteer values (12121,'');

--VOLUNTEER SKILLS

insert into volunteer\_skills values (00001 ,'Filing');

insert into volunteer\_skills values (00001 ,'Mail Sorting');

insert into volunteer\_skills values (00001 ,'Making Copies');

insert into volunteer\_skills values (00002 ,'Answering Phones');

insert into volunteer\_skills values (00002 ,'Restocking Medical Supplies');

insert into volunteer\_skills values (12121,'Filing');

--EMPLOYEE

insert into employee values (66666, '2011-02-02'); --technician

insert into employee values (77777, '1999-08-20'); --technician

insert into employee values (88888, '2009-01-17'); --technician

insert into employee values (81818, '2015-01-01'); --(technician)

insert into employee values (11111, '2011-10-10'); --nurse

insert into employee values (22222, '2015-01-01'); --nurse

insert into employee values (33333, '2002-11-30'); --nurse

insert into employee values (44444, '2008-04-04'); --nurse

insert into employee values (55555, '2011-01-01'); --nurse

insert into employee values (55556, '2012-05-11'); --nurse

insert into employee values (55213, '2016-01-21'); --nurse (RN)

insert into employee values (55333, '2016-01-20'); --nurse (RN)

insert into employee values (12321, '2015-11-05');--(nurse) (RN)

insert into employee values (99999, '2008-10-10'); --staff (NS)

insert into employee values (74125, '2008-02-02'); --staff (NS)

insert into employee values (78965, '2011-08-20'); --staff (CUS)

insert into employee values (25635, '2004-01-17'); --staff (CUS)

insert into employee values (95123, '2009-10-10'); --staff (PA)

insert into employee values (56237, '2010-04-04'); --staff (PA)

insert into employee values (85205, '2010-02-25'); --staff (PA)

insert into employee values (09578, '2009-12-11'); --staff (PA)

--TECHNICIAN

insert into technician values (66666);

insert into technician values (77777);

insert into technician values (88888);

insert into technician values (81818);

--TECHNICIAN SKILLS

insert into technician\_skills values (66666, 'Conducting Chemical Analysis of Body Fluids');

insert into technician\_skills values (66666, 'Analyzing Test Results of Experiments');

insert into technician\_skills values (77777, 'Set Up Lab Equipment');

insert into technician\_skills values (77777, 'Clean Lab Equipment');

insert into technician\_skills values (88888, 'Calibrate Lab Equipment');

insert into technician\_skills values (88888, 'Test Sterility of Lab Equipment');

insert into technician\_skills values (81818, 'Clean Lab Equipment');

--LABORATORY

insert into laboratory values ('LabCorp', 'Los Alamitos, CA');

insert into laboratory values ('West Pacific Medical Laboratories', 'Buena Park, CA');

--ASSIGNMENT TYPE

insert into assignmentTypes values ('Cleaning/Maintenance');

insert into assignmentTypes values ('Conduct Experiments');

insert into assignmentTypes values ('Analyze Results');

--ASSIGNMENT

insert into assignment values (66666, 'LabCorp', 'Los Alamitos, CA', 'Analyze Results');

insert into assignment values (77777, 'West Pacific Medical Laboratories', 'Buena Park, CA', 'Cleaning/Maintenance');

insert into assignment values (88888, 'West Pacific Medical Laboratories', 'Buena Park, CA', 'Conduct Experiments');

--NURSE CERTIFICATES

insert into nCertificates values ('LVN');

insert into nCertificates values ('RN');

--NURSE

insert into nurse values (11111, 'Parkview Healthcare Center', 'LVN');

insert into nurse values (22222, 'Parkview Healthcare Center', 'LVN');

insert into nurse values (33333, 'Parkview Healthcare Center', 'LVN');

insert into nurse values (44444, 'UCI Medical Center', 'LVN');

insert into nurse values (55555, 'UCI Medical Center', 'LVN');

insert into nurse values (55556, 'UCI Medical Center', 'LVN');

insert into nurse values (55213, 'Parkview Healthcare Center', 'RN');

insert into nurse values (55333, 'UCI Medical Center', 'RN');

insert into nurse values (12321, '','RN');

--REGISTEREDNURSE

insert into registeredNurse values (55213);

insert into registeredNurse values (55333);

insert into registeredNurse values (12321);--(nurse) (RN)

--NURSE SKILLS

Insert into nurse\_skills values (11111, 'Bathing Patients');

Insert into nurse\_skills values (11111, 'Making Beds');

Insert into nurse\_skills values (22222, 'Performing Oral Care for Unconscious Patients');

Insert into nurse\_skills values (22222, 'Administering a Tube Feeding');

Insert into nurse\_skills values (33333, 'Catheterizing the Female Urine Bladder');

Insert into nurse\_skills values (44444, 'Catheterizing the Male Urine Bladder');

Insert into nurse\_skills values (55555, 'Moving and Positioning Patients in Bed');

Insert into nurse\_skills values (55555, 'Adding Meds to IV Solution');

Insert into nurse\_skills values (55556, 'Applying Elastic Bandages');

Insert into nurse\_skills values (55556, 'Administering a Blood Transfusion');

Insert into nurse\_skills values (55213, 'Observing/Recording Patient Behaviors');

Insert into nurse\_skills values (55213, 'Monitoring Changes in Patient Conditions');

Insert into nurse\_skills values (55333, 'Providing Instant Care During Medical Emergencies');

Insert into nurse\_skills values (55333, 'Diagnosing Diseases');

Insert into nurse\_skills values (55333, 'Carrying Out Requisite Treatments and Medications');

insert into nurse\_skills values (12321,'Bathing Patients');--(nurse) (RN)

--CENTER TYPES

Insert into centerTypes values ('Healthcare Center');

Insert into centerTypes values ('Hospital');

--CARE CENTER

insert into careCenter values ('Healthcare Center', 'Parkview Healthcare Center', 'Long Beach, CA', 55213);

insert into careCenter values ('Hospital', 'UCI Medical Center', 'Anaheim, CA', 55333);

--ROOM

insert into room values ('Parkview Healthcare Center', 5);

insert into room values ('UCI Medical Center', 17);

insert into room values ('UCI Medical Center', 23);

--STAFF

insert into staff values (99999, 'Clinicals'); --nurse student

insert into staff values (74125, 'Clinicals'); --nurse student

insert into staff values (78965, 'Clean/Maintain Care Center'); --custodian

insert into staff values (25635, 'Clean/Maintain Care Center'); --custodian

insert into staff values (95123, 'Healthcare Professional'); --physician assistant

insert into staff values (56237, 'Healthcare Professional'); --physician assistant

insert into staff values (85205, 'Healthcare Professional'); --physician assistant

insert into staff values (09578, 'Healthcare Professional'); --physician assistant

--NURSE STUDENT

insert into nurseStudent values (99999, 'CSU Long Beach');

insert into nurseStudent values (74125, 'UC Irvine');

--NURSE STUDENT SKILLS

insert into nurseStudent\_skill values (99999, 'Taking Blood Pressures');

insert into nurseStudent\_skill values (99999, 'Drawing Blood');

insert into nurseStudent\_skill values (74125, 'Draw Up/Mix Insulin');

insert into nurseStudent\_skill values (74125, 'Taking Pulses');

insert into nurseStudent\_skill values (74125, 'Start IVs');

--CUSTODIAN

insert into custodian values (78965);

insert into custodian values (25635);

--CUSTODIAN SKILLS

insert into custodian\_skills values (78965, 'Clean Rooms');

insert into custodian\_skills values (78965, 'Clean Halls');

insert into custodian\_skills values (25635, 'Clean Bathrooms');

--PHYSICIAN

insert into physician values (78520, 'Brain', '555-555-5555');

insert into physician values (25914, 'Transplant', '555-123-4567');

--PHYSICIAN ASSISTANT

insert into physicianAssistant values (95123, 78520);

insert into physicianAssistant values (56237, 78520);

insert into physicianAssistant values (85205, 25914);

insert into physicianAssistant values (09578, 25914);

--PATIENT

insert into patient values (12345, '2006-11-02','78520'); --outpatient

insert into patient values (54321, '2005-09-19','78520'); --outpatient

insert into patient values (12121, '2011-02-02','78520'); --outpatient

insert into patient values (80800, '2012-02-06','25914'); --outpatient

insert into patient values (48625, '2015-11-02','78520'); --resident

insert into patient values (75357, '2015-09-19','25914'); --resident

insert into patient values (95102, '2016-02-02','25914'); --resident

--SYMPTOMS

Insert into symptoms values('sore throat');

Insert into symptoms values('fever');

Insert into symptoms values('headache');

Insert into symptoms values('heart murmur');

Insert into symptoms values('swelling');

Insert into symptoms values('stomach ache');

Insert into symptoms values('loss of hearing');

Insert into symptoms values('dizziness');

Insert into symptoms values('trauma');

--PATIENT SYMPTOMS

Insert into patientSymptoms values(12345,'sore throat');

Insert into patientSymptoms values(12345,'fever');

Insert into patientSymptoms values(54321,'headache');

Insert into patientSymptoms values(12121,'heart murmur');

Insert into patientSymptoms values(48625,'swelling');

Insert into patientSymptoms values(48625,'stomach ache');

Insert into patientSymptoms values(75357,'loss of hearing');

Insert into patientSymptoms values(75357,'dizziness');

Insert into patientSymptoms values(95102,'trauma');

--OUTPATIENT

Insert into outpatient values (12345, '1');

Insert into outpatient values (54321, '1');

Insert into outpatient values (12121, '0');

Insert into outpatient values (80800, '0');

--VISIT

Insert into visit values (12345, 78520, '2006-11-09', 'stay hydrated, take ibuprofen, rest');

Insert into visit values (54321, 25914, '2005-09-19', 'take ibuprofen, less stress');

Insert into visit values (12121, 25914, '2011-03-01', 'heart transplant success');

Insert into visit values (54321, 25914, '2011-03-01', 'checkup, scheduled next appointment');

Insert into visit values (12345, 25914, '2011-03-01', 'ordered prescription');

Insert into visit values (12345, 25914, '2016-11-09', 'checkup');

Insert into visit values (80800, 78520, '2012-02-09', 'food poisoning');

--RESIDENT

insert into resident values (48625, '2015-11-15');

insert into resident values (75357, '2015-09-23');

insert into resident values (95102, '2016-02-13');

--BED

insert into bed values (48625, 'Parkview Healthcare Center', 5, 1);

insert into bed values (75357, 'UCI Medical Center', 17, 2);

insert into bed values (95102, 'UCI Medical Center', 23, 1);

insert into bed values (null,'UCI Medical Center',23,3);

insert into bed values (null, 'UCI Medical Center', 23, 4);

/\*\*\*\*\*\*\*\*\*\*\*\*\*CREATE VIEWS\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\*1\*/

create view EmployeeHired as

select personnel.personnel\_ID, personnel.pFirstName, personnel.pLastName, employee.eHireDate

from personnel inner join employee on personnel.personnel\_ID = employee.employee\_ID;

/\*2\*/

create view NursesInCharge as

select personnel.pFirstName, personnel.pLastName, careCenter.centerName, phone.phoneNumber from personnel

join careCenter on personnel.personnel\_ID = careCenter.nurse\_ID

join phone on careCenter.nurse\_ID = phone.personnel\_ID;

/\*3\*/

create view GoodTechnician as

select personnel\_ID, pFirstName, pLastName, count(technician\_ID) as NumberOfSkills from personnel x

join technician\_skills y on x.personnel\_ID = y.technician\_ID having count(technician\_ID) > 1;

/\*4\*/

create view CareCenterBeds as

select centerName, count(patient\_ID) as OccupiedBeds, count(\*) - count(patient\_ID) as FreeBeds, count(\*) as TotalBeds

from bed group by centerName having count(\*) > 0;

/\*5\*/

create view OutPatientsNotVisited as

select \* from outpatient natural join visit where datediff(curdate(), visit.vDate) < 0;

/\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\*1\*/

select pFirstName as FirstName, pLastName as LastName, sJob

from staff inner join personnel on staff.staff\_ID = personnel.personnel\_ID

order by sJob;

/\*2\*/

select pFirstName, pLastName

from personnel p

inner join volunteer v

on p.personnel\_ID=v.Volunteer\_ID

where not exists (select \*from volunteer\_skills s where p.personnel\_ID = s.volunteer\_ID);

/\*3\*/

select pFirstName, pLastName

from patient inner join volunteer on patient.patient\_ID = volunteer.volunteer\_ID

inner join personnel on volunteer.volunteer\_ID = personnel.personnel\_ID;

/\*4\*/

select pFirstName, pLastName

from outpatient inner join personnel on outpatient.patient\_ID = personnel.personnel\_ID

inner join visit on visit.patient\_ID = outpatient.patient\_ID

group by outpatient.patient\_ID

having (count(outpatient.patient\_ID = 1));

/\*5\*/

select varSkill, count(volunteer\_skills.volunteer\_ID) + count(technician\_skills.technician\_ID) as personnel\_count

from skills

left join volunteer\_skills on skills.varSkill = volunteer\_skills.vSkill

left join technician\_skills on skills.varSkill = technician\_skills.tSkill

group by varSkill;

/\*6\*/

select distinct centerName

from bed

where patient\_ID is null;

/\*7\*/

select nurse\_ID, pFirstName, pLastName

from personnel p

inner join nurse n on p.personnel\_ID = n.nurse\_ID

inner join registeredNurse r on n.nurse\_ID= r.registeredNurse\_ID

where nCertificate = 'RN'

and not exists (select \* from careCenter c where c.nurse\_ID= registeredNurse\_ID);

/\*8\*/

select n.nurse\_ID, pFirstName, pLastName

from personnel p

inner join nurse n on p.personnel\_ID = n.nurse\_ID

inner join registeredNurse r on n.nurse\_ID= r.registeredNurse\_ID

inner join careCenter c on r.registeredNurse\_ID= c.nurse\_ID

where n.nCertificate= 'RN'

and c.centerName=n.nurseCenter;

/\*9\*/

select labName

from laboratory

inner join assignment using (labName)

inner join technician\_skills using (technician\_ID)

where tSkill !=''

or tSkill !=NULL

group by(labName);

/\*10\*/

select pFirstName, pLastName, rAdmitDate, (select min(eHireDate) from employee) as 'Latest Hire'

from personnel p

inner join patient pt on p.personnel\_ID= pt.patient\_ID

inner join resident r on pt.patient\_ID= r.patient\_ID

where rAdmitDate >

(select max(eHireDate) as 'Latest Hire'

from employee);

/\*11\*/

select patient\_ID, pFirstName, pLastName, pContactDate, rAdmitDate

from patient inner join resident using (patient\_ID)

inner join personnel on patient.patient\_ID = personnel.personnel\_ID

where datediff(pContactDate, rAdmitDate) < 8;

/\*12\*/

select patient\_ID, pFirstName, pLastName, pContactDate, vDate

from outpatient inner join visit using (patient\_ID)

inner join personnel on outpatient.patient\_ID = personnel.personnel\_ID

inner join patient using (patient\_ID)

where datediff(vDate, pContactDate) > 7;

/\*13\*/

select physician\_ID, pFirstName, pLastName, vDate, count(vDate) as visit

from physician inner join personnel on physician.physician\_ID = personnel.personnel\_ID

natural join visit

group by physician\_ID, vDate

having count(vDate) >= 3;

/\*14\*/

select physician\_ID, count(outpatient.patient\_ID) as outpatient\_count, count(resident.patient\_ID) as resident\_count

from physician

inner join patient on patient.pPhysicianInCharge = physician.physician\_ID

left join outpatient on patient.patient\_ID = outpatient.patient\_ID

left join resident on patient.patient\_ID = resident.patient\_ID

group by physician\_ID

having outpatient\_count > resident\_count;

/\*15\*/

select patient\_ID, physician\_ID, pPhysicianInCharge

from physician inner join visit

using (physician\_ID) inner join outpatient

using (patient\_ID) inner join

patient using (patient\_ID)

where patient.pPhysicianInCharge != physician.physician\_ID;

/\*16\*/

--16 a.show all personnel with 2 or more phone numbers(3 is the max phone numbers allowed)

select pFirstName, pLastName, count(phoneNumber)

from personnel p

inner join phone f on p.personnel\_ID= f.personnel\_ID

group by f.personnel\_ID

having count(phoneNumber) >=2

and count(phoneNumber) <=3;

--16 b.

--show how many mentee's a physician has

select pFirstName, pLastname, count(pa.physician\_ID)

from personnel p

inner join physician f on p.personnel\_ID= f.physician\_ID

inner join physicianAssistant pa using(physician\_ID)

group by pa.physician\_ID;

--16 c.

--show each nurse student who goes to the "CSU Long Beach" institution and has the skill "Drawing Blood"

create view LBNurseStudent as

select pFirstName, pLastName, nlnSituation,nSkill

from personnel p

inner join employee e on p.personnel\_ID= e.employee\_ID

inner join staff s on e.employee\_ID= s.staff\_ID

inner join nurseStudent ns on s.staff\_ID = ns.nurseStudent\_ID

inner join nurseStudent\_skill nk using(nurseStudent\_ID)

where nlnSituation= 'CSU Long Beach'

and nSkill= 'Drawing Blood';

--Triggers Demo:

insert into phone values (11111, 'mobile2', '562-670-8892');

insert into phone values (11111, 'mobile3', '562-670-8893');

insert into physicianAssistant values (85205, 78520);

insert into physicianAssistant values (09578, 78520);

insert into physicianAssistant values (99999, 78520);

insert into registeredNurse values (55555);

insert into bed values (75357, 'UCI Medical Center', 23, 1);

/\*DELETES\*//\*

drop table assignment;

drop table bed;

drop table room;

drop table careCenter;

drop table custodian\_skills;

drop table custodian;

drop table nurseStudent\_skill;

drop table nurseStudent;

drop table technician\_skills;

drop table registeredNurse;

drop table nurse\_skills;

drop table nurse;

drop table volunteer\_skills;

drop table volunteer;

drop table physicianAssistant;

drop table patientSymptoms;

drop table visit;

drop table outpatient;

drop table resident;

drop table patient;

drop table assignmentTypes;

drop table technician;

drop table centerTypes;

drop table staff;

drop table employee;

drop table laboratory;

drop table nCertificates;

drop table phone;

drop table symptoms;

drop table physician;

drop table skills;

drop table personnel;

drop view EmployeeHired;

drop view NursesInCharge;

drop view GoodTechnician;

drop view CareCenterBeds;

drop view OutPatientsNotVisited;