CREATE DATABASE Hospital

USE Hospital

--!!!! CREATE THE 3 TABLES

CREATE TABLE Doctor

(

Doctor\_id int IDENTITY (1,1),

DoctorName varchar(60) not null,

Specialization varchar(70) not null

CONSTRAINT PK\_Doctor Primary Key(Doctor\_id)

)

SELECT \* FROM Doctor

CREATE TABLE Patient

(

Patient\_id int IDENTITY (1,1),

PatientName varchar(60) not null,

Address varchar(70) not null,

CONSTRAINT PK\_Patient Primary Key(Patient\_id)

)

SELECT \* FROM Patient

CREATE TABLE Schedule

(

Doctor\_id int not null,

Patient\_id int not null,

Hour datetime not null,

CONSTRAINT PK\_Schedule PRIMARY KEY (Doctor\_id,Patient\_id),

CONSTRAINT FK\_Schedule\_Doctor FOREIGN KEY (Doctor\_id) REFERENCES Doctor(Doctor\_id),

CONSTRAINT FK\_Schedule\_Patient FOREIGN KEY (Patient\_id) REFERENCES Patient(Patient\_id)

)

SELECT \* FROM Schedule

--!!! ADD COLUM ADDRESS IN TABLE DOCTOR

ALTER TABLE Doctor

ADD Address varchar(60) null

--!!! ISNERT VALEUS INTO TABLES

INSERT INTO Doctor(Doctor\_id, DoctorName,Specialization)

VALUES (123,'Ivan Dragunov', 'Cardiosurgery')

INSERT INTO Doctor(Doctor\_id, DoctorName,Specialization,Address)

VALUES (124,'Iliyana Kalashnikova', 'Orthopedics','Skopie 206 Str')

INSERT INTO Doctor(Doctor\_id, DoctorName,Specialization,Address)

VALUES (125,'Stoyan Granatov', 'General Practitioner','Gladstone 34 Str')

DELETE FROM Doctor

WHERE Doctor\_id = 125

SELECT \* FROM Patient

INSERT INTO Patient(Patient\_id, PatientName, Address)

VALUES (001,'Peter Parker','Hristo Botev 88 Str')

INSERT INTO Patient(Patient\_id, PatientName, Address)

VALUES (002,'John Smith','Vasil Levski 37 Str')

INSERT INTO Patient(Patient\_id, PatientName, Address)

VALUES (003,'Jane Doe','Ivan Vazov 55 Str')

SELECT \* FROM Doctor

INSERT INTO Schedule (Doctor\_id,Patient\_id)

VALUES (123,002)

INSERT INTO Schedule (Doctor\_id,Patient\_id,Hour)

VALUES (124,001, '2019-03-15')

INSERT INTO Schedule (Doctor\_id,Patient\_id,Hour)

VALUES (125,003, '2019-04-01')

--!!! CHANGE DOCTOR INFO WHERE ID = 123

UPDATE Doctor

SET DoctorName = 'Dimitar Dragunov', Address = 'Tzar Boris 57 Blvd'

WHERE Doctor\_id = 123

--!!! DELETE DOCTOR WITH NAME STARTING WITH 'I'

SELECT \* FROM Schedule

DELETE FROM Schedule

WHERE Doctor\_id = 124

DELETE FROM Doctor

WHERE DoctorName LIKE 'I%'

SELECT \* FROM Doctor

--!!! END OF TASK ONE

--!!! START OF TASK TWO

--!!! Select by name different surgeons

INSERT INTO Doctor(Doctor\_id, DoctorName,Specialization)

VALUES (126,'Martin Markov', 'Brainsurgery')

INSERT INTO Doctor(Doctor\_id, DoctorName,Specialization)

VALUES (127,'Zlatan Popovich', 'Neurosurgery')

INSERT INTO Doctor(Doctor\_id, DoctorName,Specialization)

VALUES (128,'Ronaldo Georgiev', 'Ortopepedcics')

SELECT DoctorName FROM Doctor

WHERE Specialization LIKE '%surgery'

ORDER BY DoctorName DESC

--!!! SELECT PATIENTS AND RESERVED HOURS

INSERT INTO Patient(Patient\_id, PatientName, Address)

VALUES (004,'Giovanni Petrelli','Tzar Simeon 14 Str')

INSERT INTO Patient(Patient\_id, PatientName, Address)

VALUES (005,'Mike Wazovski','Strahil 44 Str')

SELECT PatientName, Hour

FROM Patient LEFT JOIN Schedule on Patient.Patient\_id = Schedule.Patient\_id

--!!! Select Name of Patient and number of reserved hours

DROP TABLE Schedule

INSERT INTO Schedule (Doctor\_id,Patient\_id,Hour)

VALUES (126,003, '2019-04-04')

INSERT INTO Schedule (Doctor\_id,Patient\_id,Hour)

VALUES (127,003, '2019-04-05')

INSERT INTO Schedule (Doctor\_id,Patient\_id,Hour)

VALUES (123,003, '2019-04-06')

INSERT INTO Schedule (Doctor\_id,Patient\_id,Hour)

VALUES (128,003, '2019-04-07')

SELECT \* FROM Schedule

SELECT PatientName, COUNT(Schedule.Hour)

FROM Patient LEFT JOIN Schedule ON Patient.Patient\_id = Schedule.Patient\_id

GROUP BY PatientName

HAVING COUNT(Schedule.Hour)>=5

--!!! END OF TASK TWO

--!!! START OF TASK THREE

CREATE VIEW FinishedExamination

AS

SELECT Doctor.DoctorName, COUNT(Schedule.Hour) as Finished\_Examinations

FROM Doctor LEFT JOIN Schedule ON Doctor.Doctor\_id = Schedule.Doctor\_id

WHERE Schedule.Hour > 2019-03-10

GROUP BY Doctor.DoctorName

ALTER VIEW FinishedExamination

AS

SELECT Doctor.DoctorName, COUNT(Schedule.Hour) as Finished\_Examinations

FROM Doctor LEFT JOIN Schedule ON Doctor.Doctor\_id = Schedule.Doctor\_id

GROUP BY Doctor.DoctorName

SELECT \* FROM FinishedExamination

SELECT \* FROM Schedule

SELECT \* FROM Doctor

SELECT \* FROM Patient