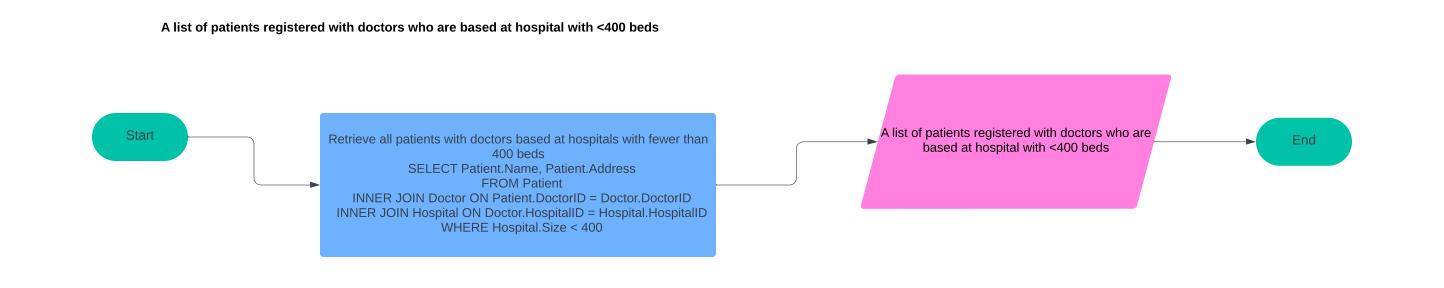
Flow chart planning for SQL queries Add a new customer to the database, including being registered with one of the doctors. Register patient with doctor: Insert patient Retrieve patient INSERT INTO VALUES ID: SET Input patient details:PatientName, details: INSERT PatientDoctor (PatientName, patient_id = PatientAddress, PatientDateOfBirth, INTO Patient End (PatientID, (SELECT PatientAddress, DoctorID (Name, Address, DoctorID) PatientDateOfBirth MAX(PatientID) DateOfBirth) VALUES **FROM Patient)** (patient_id, doctor_id) Modify address details of an existing customer. Update the patient's address: SET Address = NewAddress WHERE PatientID = INPUT patientID, patientID NewAddress Print a list of all patient names and addresses for patients registered to doctors based at one particular hospital - that could be used for posting information mail to all of one hospital's registered patients Retrieve all patients registered with Input Output: Display patient doctors at the given hospital HospitalID names and addresses SELECT Patient.Name, Patient.Address FROM Patient INNER JOIN Doctor ON Patient.DoctorID = .DoctorID WHERE Doctor.HospitalID = hospital_id Print a list of all doctors based at Teaching hospitals which were accredited between 2015-2024. SELECT Doctor.Name, Doctor.Specialization FROM Doctor INNER JOIN Hospital ON Doctor. HospitalID = Hospital.HospitalID WHERE Hospital.Type = 'Teaching' Output: Display a list of all doctors based at AND YEAR(Hospital.AccreditationYear) BETWEEN 2015 AND 2024 teaching hospitals which were accredited between Start 2015 and 2024 List all patients who may have a particular disease based on which medication they have been prescribed. Retrieve patients who Retrieve the have been prescribed medications the medications associated with the Input: DiseaseName SELECT Patient.Name, disease Patient.Address Output: A list of patients who may SELECT FROM Patient End have a particular disease based on medication_list INNER JOIN which medication they have been FROM Prescription ON DiseaseMedication prescribedt Patient.PatientID = WHERE Prescription.PatientID DiseaseName = WHERE disease_name Prescription.Medication IN (medicationID) List all doctors based at who specialize in a particular disease. List all doctors specializing in the given disease SELECT DISTINCT Doctor.Name FROM Doctor INNER JOIN DiseaseDoctor ON Doctor.DoctorID = Input: DiseaseName Output: List all doctors based at who DiseaseDoctor.DoctorID specialize in a particular disease. INNER JOIN Disease ON DiseaseDoctor.DiseaseID = Disease.DiseaseID WHERE Disease.Name = disease_name List all lab results for all patients over the age of 60. List all lab results for patients over the age of 60 SELECT LabResult.TestType, LabResult.Result, Patient.Name FROM LabResult Output: A list of all lab results for all INNER JOIN Patient ON LabResult.PatientID = Patient.PatientID patients over the age of 60. WHERE DATEDIFF(YEAR, Patient.DateOfBirth, CURRENT_DATE) > Print a list of all appointments for a given patient. Retrieve all appointments for the given patient SELECT Appointment.Date, Appointment.Time, Input: Doctor.Name Output: a list of all PatientID FROM Appointment appointments for a given INNER JOIN Doctor ON Appointment.DoctorID = patient. Doctor.DoctorID WHERE Appointment.PatientID = PatientID Print a list of all appointments for a given doctor. Retrieve all appointments for the given doctor SELECT Appointment.Date, Input: Output: a list of all Appointment.Time, Patient.Name DoctorID FROM Appointment appointments for a given INNER JOIN Patient ON doctor. Appointment.PatientID = Patient.PatientID WHERE Appointment.DoctorID = DoctorID Print all prescriptions made from a particular hospital ordered alphabetically by the name of the medication being prescribed - The output of this SQL query should include only these 4 columns: the medication name, the name of doctor who prescribed it, the name of the patient, and the name of hospital. Retrieve prescriptions ordered by the name of the medication Output:all prescriptions made from a particular hospital ordered SELECT Medication.Name, Doctor.Name, Patient.Name, Hospital.Name alphabetically by the name of the medication being prescribed FROM Prescription Input: hospitalID INNER JOIN Doctor ON Prescription.DoctorID = Doctor.DoctorID INNER JOIN Patient ON Prescription.PatientID = Patient.PatientID INNER JOIN Hospital ON Doctor. HospitalID = Hospital. HospitalID INNER JOIN Medication ON Prescription. MedicationID = Medication.MedicationID WHERE Hospital.HospitalID = HospitalID ORDER BY Medication.Name ASC Print a list of all lab results from all hospitals that were accredited between 2013-2020. Output: a list of all lab results from all hospitals that were Retrieve all lab results from hospitals accredited between 2013 and accredited between 2013-2020 2020. SELECT LabResult.TestType, LabResult.Result, Patient.Name, Hospital.Name FROM LabResult INNER JOIN Patient ON LabResult.PatientID = Patient.PatientID INNER JOIN Doctor ON Patient.DoctorID = Doctor.DoctorID INNER JOIN Hospital ON Doctor.HospitalID = Hospital.HospitalID WHERE YEAR(Hospital.AccreditationDate) BETWEEN 2013 AND Identify which doctor has made the most prescriptions. SELECT Doctor.Name, COUNT(Prescription.PrescriptionID) AS PrescriptionCount FROM Prescription Output: The name of the doctor who has the most INNER JOIN Doctor ON prescriptions Prescription.DoctorID = Doctor.DoctorID GROUP BY Doctor.Name ORDER BY PrescriptionCount DESC LIMIT 1 Print a list of all doctors at the hospital with biggest size (number of beds). Find the hospital with the Retrieve all doctors at the hospital with the biggest size a list of all doctors at the hospital SELECT Doctor.Name biggest number of beds with biggest size SELECT MAX(Hospital.Size) FROM Doctor INNER JOIN Hospital ON Doctor.HospitalID = AS MaxSize Hospital.HospitalID WHERE Hospital.Size = MaxSize FROM Hospital A list of all hospital names which were accredited prior to 2015 and do have **Emergency Service facilities.** Retrieve all hospitals accredited prior to 2015 with Emergency Service facilities SELECT Hospital.Name FROM Hospital WHERE Hospital. Accreditation Status = 'Accredited' A list of all hospital names which were



accredited prior to 2015 and do have

Emergency Service facilities.

AND YEAR(Hospital.AccreditationDate) < 2015

AND Hospital.Type = EmergencyService