

IST 659
Database Management Systems
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Healthcare on the Go

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Implementation Report

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Project Summary

Business Description:

These days billions are invested in the healthcare sector to keep the research up-to-date. To keep the patients up-to-date, the organization **Healthcare on The Go** lets patient understand the medical condition by inputting their symptoms sitting anywhere in the world. The organization is a government-funded Not for Profit (NGO), registered under FCRA. Our mission is to digitize healthcare for the wellbeing of the society. The organization partners with doctors and knowledge experts from all specializations ranging from private as well government organizations.

Problem Statement:

The project aims at creating an inventory management system for the organization. At present, the patients must take an appointment (which at times is not available in next two weeks). The next step is traveling to the hospital or the medical center where there is some waiting time after which the patient finally meets the doctor. The final step is the medical prescription by the doctor after successful diagnosis. All these steps take a lot of time from taking an appointment to finally get a prescription which at times cause distress among the patients.

Proposed Solution:

Create a database of all the data related to the medical issues and symptoms, patients and doctors. The database will contain information of all the medical issues mapping it with the different symptoms one might be facing. The database will also maintain a table for the list of doctors and knowledge experts partnered with the organization. Once the patient has a holistic idea of what he/she may be suffering from, they may select all the symptoms and further choose to contact the doctor from the doctor's contact information that is available to the patient. In addition, after successful diagnosis, a prescription with relevant medicines can be generated from the doctor's side, this prescription will be sent via the email (Restricted medicines will require an in-person meeting). To secure the patient's identity, the doctor only receives a patient ID with relevant symptoms (**This patient ID is nothing but a counter given to each individual when they use the application**). We are not interested in keeping a record of any individual patients, instead we are interested In understanding the general trend, so that in the future we can reach out directly to people of similar portfolio.

Users:

The primary users of the system are the patients suffering from a medical issue. They will use the system to figure out their medical condition based on different symptoms. The secondary users will be members from the administration department or the doctors themselves, who will enter the

data related any new symptoms or diseases after discussion with the partnered doctors, medicines and so on. Doctors will also have access to the patient data in order to accurately prescribe medicines to a particular patient.

Entities And Attributes

Patient Entity

- **Patient Entity contains detailed information about each patient**

ENTITY NAME: Patient	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION
Primary Key	Patient ID	Integer	NOT NULL	Patient Unique ID
	First Name	Varchar(40)	NOT NULL	First Name of the Patient
	Last Name	Varchar(40)	NOT NULL	Last Name of the Patient
	House Number	Integer	NOT NULL	House Number where the Patient lives
	DOB		NOT NULL	Date of Birth of Patient
	Street Name	Varchar(30)	NOT NULL	Street Name where Patient lives
	City	Varchar(30)	NOT NULL	City in which patient lives
	State	Varchar(30)	NOT NULL	State in which patient lives
	Phone Number	Varchar(20)	NOT NULL	Patient's Phone Number
	Email Address	Varchar(20)	NOT NULL	Patient's Email Address

Symptoms Entity

- **Symptoms Entity contains the details of the different symptoms in the database.**

ENTITY NAME: Symptoms	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION
Primary Key	Symptom ID	Integer	NOT NULL	Symptom Unique ID
	Name	Varchar(255)	NOT NULL	Name of all the Symptoms

Doctor Entity

- **Doctor Entity contains detailed information about each doctor**

ENTITY NAME: Doctor	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION
Primary Key	Doctor ID	Integer	NOT NULL	Unique Doctor ID
	First Name	Varchar(40)	NOT NULL	First Name of the Doctor
	Last Name	Varchar(40)	NOT NULL	Last Name of the Doctor
	House Number	Varchar(255)	NOT NULL	House Number where the Doctor lives
	Street Name	Varchar(20)	NOT NULL	Street Name where Doctor lives
	City	Varchar(30)	NOT NULL	City in which Doctor lives
	State	Varchar(30)	NOT NULL	State in which Doctor lives
	Phone Number	Varchar(30)	NOT NULL	Doctor's Phone Number
	Email Address	Varchar(10)	NOT NULL	Doctor's Email Address

Medical Condition Entity

- **Medical Condition Entity contains information about medical conditions like its name, severity and time to recover from the condition.**

ENTITY NAME: Medical Condition	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION
Primary Key	Medical Condition ID	Integer	NOT NULL	Unique Medical Condition ID
	Name	Varchar(255)	NOT NULL	Name of the Medical Condition
	Severity	Varchar(255)	NOT NULL	Severity of the Medical Condition
	Time to recover	Varchar(255)	NOT NULL	Time to recover from the medical condition

Medicine Entity

- **Medicine Entity contains information about the medicine , nmely its name, company and its status as far as public sale is concerned.**

ENTITY NAME: Medicine	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION
Primary Key	Medicine ID	Integer	NOT NULL	Unique Medicine ID
	Name	Varchar(255)	NOT NULL	Medicine Name
	Company Make	Varchar(255)	NOT NULL	Manufacturer of the medicine
	Restricted Status	Varchar(255)	NOT NULL	Restriction Status of the medicine

Patient Symptoms Entity

- **Patient Symptoms Entity is an associative entity that has foreign keys from Patient Entity and Symptom Entity.**

ENTITY NAME: Patient Symptoms	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION
Primary Key	Patient Symptom ID	Integer	NOT NULL	Unique patient symptom ID
Foreign Key	Patient ID	Integer	NOT NULL	Patient Unique ID
Foreign Key	Symptom ID	Integer	NOT NULL	Symptom Unique ID

Medical Symptoms Entity

- **Medical Symptoms Entity is an associative entity that has foreign keys from Medical Conditions Entity and Symptom Entity.**

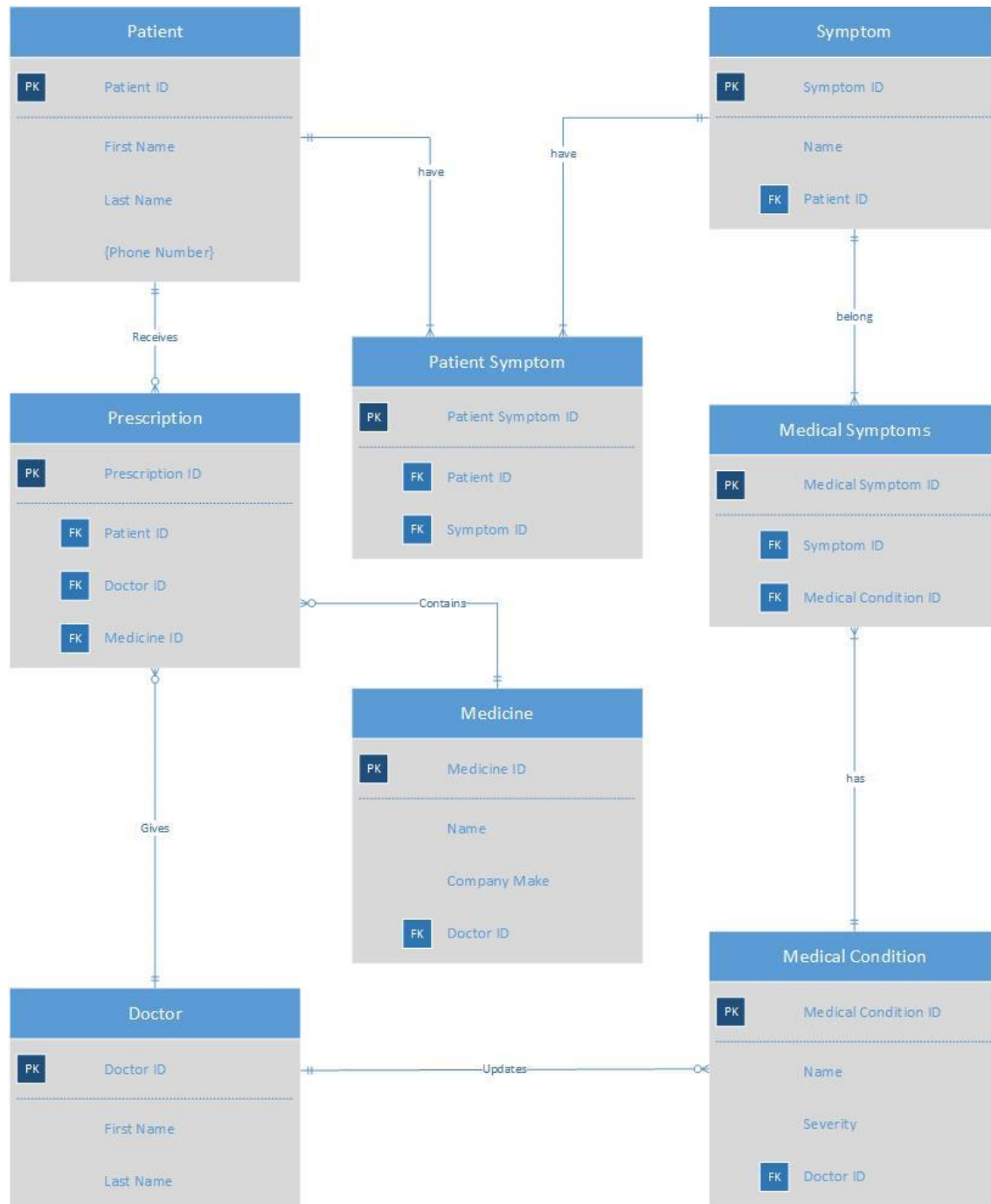
ENTITY NAME: Medical Symptoms	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION
Primary Key	Medical Symptoms ID	Integer	NOT NULL	Unique Medical Symptoms ID
Foreign Key	Symptoms ID	Integer	NOT NULL	Symptom Unique ID
Foreign Key	Medical Conditions ID	Integer	NOT NULL	Unique Medical Condition ID

Prescription Entity

- **Prescription Entity has the details of the prescribed medicine and the doctor who prescribed these medicines and to which patient. This is also an associative entity.**

ENTITY NAME: Prescription	ATTRIBUTE NAME	FIELD TYPE	NULL / NOT NULL	EXPLANATION		
Primary Key	Prescription ID	Integer	NOT NULL	Unique Prescription ID		
Foreign Key	Patient ID ID	Integer	NOT NULL	Symptom Unique ID		
Foreign Key	Doctor ID	Integer	NOT NULL	Unique Medical Condition ID		
Foreign Key	Medicine ID	Integer	NOT NULL	Unique Medicine ID		

Entity Relationship Diagram



CREATING TABLES

```
CREATE TABLE Patient(  
Patient_ID INTEGER NOT NULL PRIMARY KEY,  
P FName VARCHAR(40) NOT NULL,  
P LName VARCHAR(40) NOT NULL,  
Age INTEGER NOT NULL,  
P Phone VARCHAR(20) NOT NULL,  
P StreetNumber VARCHAR(30) NOT NULL,  
P StreetName VARCHAR(30) NOT NULL,  
P City Varchar(30) NOT NULL,  
P State Varchar(30) NOT NULL,  
P Zip Varchar(10) NOT NULL,  
);
```

```
CREATE TABLE Doctor(  
Doctor_ID INTEGER NOT NULL PRIMARY KEY,  
D FName VARCHAR(40) NOT NULL,  
D LName VARCHAR(40) NOT NULL,  
Hospital VARCHAR(255) NOT NULL,  
D Phone VARCHAR(20) NOT NULL,  
D StreetNumber VARCHAR(30) NOT NULL,  
D StreetName VARCHAR(30) NOT NULL,  
D City Varchar(30) NOT NULL,  
D State Varchar(30) NOT NULL,  
D Zip Varchar(10) NOT NULL,  
);
```

```
CREATE TABLE Symptom(  
Symptom_ID INTEGER NOT NULL PRIMARY KEY,  
S Name VARCHAR(255) NOT NULL,  
);
```

```
CREATE TABLE Patient_Symptoms(  
Patient_Symptom_ID INTEGER NOT NULL PRIMARY KEY,  
Patient_ID INTEGER NOT NULL FOREIGN KEY REFERENCES Patient(Patient_ID),  
Symptom_ID INTEGER NOT NULL FOREIGN KEY REFERENCES Symptom(Symptom_ID),  
);
```

```
CREATE TABLE Medical_Condition(  
Medical_Condition_ID INTEGER NOT NULL PRIMARY KEY,  
M Name VARCHAR(255) NOT NULL,  
Severity VARCHAR(255) NOT NULL,  
DOCTOR_ID INTEGER FOREIGN KEY REFERENCES Doctor(Doctor_ID),  
);
```

```
CREATE TABLE Medical_Symptoms(  
Medical_Symptom_ID INTEGER NOT NULL PRIMARY KEY,  
Symptom_ID INTEGER NOT NULL FOREIGN KEY REFERENCES Symptom(Symptom_ID),
```

```
Medical_Condition_ID INTEGER FOREIGN KEY REFERENCES Medical_Condition (Medical_Condition_ID),
);
```

```
CREATE TABLE Medicine(
Medicine_ID INTEGER NOT NULL PRIMARY KEY,
MeName VARCHAR(255) NOT NULL,
Company_Make VARCHAR(255) NOT NULL,
Doctor_ID INTEGER FOREIGN KEY REFERENCES Doctor(Doctor_ID),
);
```

```
CREATE TABLE Prescription(
Prescription_ID INTEGER NOT NULL PRIMARY KEY,
Patient_ID INTEGER FOREIGN KEY REFERENCES Patient(Patient_ID),
Doctor_ID INTEGER FOREIGN KEY REFERENCES Doctor(Doctor_ID),
Medicine_ID INTEGER FOREIGN KEY REFERENCES Medicine(Medicine_ID),
);
```

INSERTING VALUES INTO TABLES

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (1, 'Nathan', 'Kerr', 19,'315-555-5555', '112', 'Lafayette Rd',
'Syracuse', 'New York', '13205')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (2, 'Sebastian', 'Chapman', 21,'315-555-6666', '17', 'James St',
'Syracuse', 'New York', '13210')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (3, 'Heather', 'Cameron', 15,'315-555-7777', '410', 'Comstock Ave',
'Syracuse', 'New York', '13210')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (4, 'Olivia', 'Wallace', 20,'315-555-8888', '4248', 'Nottingham Rd',
'Syracuse', 'New York', '13244')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (5, 'Lily', 'Turner', 30,'315-556-9999', '3', 'Ostrom Ave', 'Syracuse',
'New York', '13225')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (6, 'Robinson', 'Curt', 25,'315-555-6666', '12', 'Ostrom Ave', 'Los
Angeles', 'CA', '90205')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age, PPhone,PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (7, 'Austin', 'Byron', 29,'805-280-2018', '54', 'Skyline Blvd',
'Oakland', 'CA', '94620')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (8, 'Tin', 'Chung', 23,'315-685-8898', '69', 'Comstock Ave', 'Paperwork
```

City', 'CA', '94645')

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (9, 'Cassandra', 'Alvarado', 15,'315-555-8888', '1348', 'Elm St.',
'Denver', 'CO', '80012')
```

```
INSERT INTO Patient(Patient_ID, PFName, PLName, Age,PPhone, PStreetNumber,
PStreetName, PCity, PState, PZip)
VALUES (10, 'Beverly', 'Baker', 17,'315-556-9999', '4387', 'College Drive',
'Dayton', 'OH', '45404')
```

```
INSERT INTO Doctor(Doctor_ID, DFName, DLName, Hospital, DPhone, DStreetNumber,
DStreetName, DCity, DState, DZip)
VALUES (1, 'Dorothy', 'Paige', 'St. Francis Hospital', '315-555-0126',
'137', 'Sumner Ave', 'Syracuse', 'New York', '13210')
```

```
INSERT INTO Doctor(Doctor_ID, DFName, DLName, Hospital, DPhone, DStreetNumber,
DStreetName, DCity, DState, DZip)
VALUES (2, 'Amy', 'May', 'Cleveland Clinic', '315-5555', '777', 'Ackerman
Ave', 'Syracuse', 'New York', '13210')
```

```
INSERT INTO Doctor(Doctor_ID, DFName, DLName, Hospital, DPhone, DStreetNumber,
DStreetName, DCity, DState, DZip)
VALUES (3, 'Charles', 'Duncan', 'Mount Sinai Hospital', '315-444-5555',
'345', 'Lancaster Ave', 'Syracuse', 'New York', '13210')
```

```
INSERT INTO Doctor(Doctor_ID, DFName, DLName, Hospital, DPhone, DStreetNumber,
DStreetName, DCity, DState, DZip)
VALUES (4, 'Victor', 'Miller', 'NYU Winthrop Hospital', '315-333-5565',
'7116', 'Lafayette Rd', 'Syracuse', 'New York', '13205')
```

```
INSERT INTO Doctor(Doctor_ID, DFName, DLName, Hospital, DPhone, DStreetNumber,
DStreetName, DCity, DState, DZip)
VALUES (5, 'Ray', 'Mysterio', 'Bellevue Hospital', '315-129-5677', '234',
'Lafayette Rd', 'Syracuse', 'New York', '13205')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
VALUES(1, 'Dry Cough')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
VALUES(2, 'Intense Abdominal Pain')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
VALUES(3, 'Recurrent Constipation')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
VALUES(4, 'Intense Headaches')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
VALUES(5, 'Sudden Knee Pain')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
VALUES(6, 'Sudden Neck Pain')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
VALUES(7, 'Blisters Skin Rashes')
```

```
INSERT INTO Symptom(Symptom_ID, SName)
```

```
VALUES(8, 'Dry and Itchy Eye')
```

```
INSERT INTO Symptom(Symptom_ID, SName)  
VALUES(9, 'Dull and Achy Hip Pain')
```

```
INSERT INTO Symptom(Symptom_ID, SName)  
VALUES(10, 'Nausea and Vomiting')
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(1, 'Common Cold', 'Medium', 1)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(2, 'Hay Fever', 'Low', 1)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(3, 'Influenza', 'Medium', 3)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(4, 'Pneumonia', 'Medium', 5)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(5, 'Appendicitis', 'Medium', 1)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(6, 'Gall Stones', 'Medium', 2)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(7, 'Kidney Stones', 'Medium', 3)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(8, 'Encropresis', 'Low', 5)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(9, 'Intussusception', 'High', 4)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(10, 'Cluster Headache', 'Medium', 2)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(11, 'Migrane', 'High', 3)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(12, 'ACL Injury', 'Medium', 3)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(13, 'Sprains and Strains', 'Low', 5)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(14, 'Torn Meniscus', 'Medium', 4)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(15, 'Herniated Disk', 'Medium', 2)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(16, 'Sprain and Strains', 'Medium', 5)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)
```

```
VALUES(17, 'Tension Headache','Low', 2)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(18, 'Hand-Foot and Mouth Disease','Medium', 1)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(19, 'Impetigo','Low', 4)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(20, 'Poison Ivy Rash','Low', 2)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(21, 'Hay Fever','Medium', 5)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(22, 'Keratitis','High', 2)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(23, 'Conjunctivitis','Medium', 3)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(24, 'Bursitis','Medium', 4)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(25, 'Hip Labral Tear','High', 5)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(26, 'Tendinitis','Low', 1)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(27, 'Food Allergy','Low', 3)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(28, 'Food Poisoning','Medium', 2)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(29, 'Stomach Flu','High', 5)
```

```
INSERT INTO Medical_Condition(Medical_Condition_ID, MName, Severity, DOCTOR_ID)  
VALUES(30, 'Motion Sickness','Low', 4)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)  
VALUES(1, 1, 10)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)  
VALUES(2, 1, 5)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)  
VALUES(3, 2, 3)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)  
VALUES(4, 3, 9)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)  
VALUES(5, 4, 8)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)  
VALUES(6, 5, 7)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)
VALUES(7, 6, 1)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)
VALUES(8, 7, 2)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)
VALUES(9, 8, 4)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)
VALUES(10, 9, 6)
```

```
INSERT INTO Patient_Symptoms(Patient_Symptom_ID, Patient_ID, Symptom_ID)
VALUES(11, 10, 3)
```

```
SELECT * FROM Symptom
SELECT * FROM Medical_Condition
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(1, 1, 1)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(2, 1, 2)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(3, 1, 3)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(4, 1, 4)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(5, 2, 5)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(6, 2, 6)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(7, 2, 7)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(8, 4, 10)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(9, 4, 11)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(10, 3, 8)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(11, 3, 9)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(12, 3, 9)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(13, 5, 12)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(14, 5, 13)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(15, 5, 14)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(16, 6, 15)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(17, 6, 16)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(18, 6, 17)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(19, 7, 18)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(20, 7, 19)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(21, 7, 20)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(22, 8, 21)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(23, 8, 22)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(24, 8, 23)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(25, 9, 24)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(26, 9, 25)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(27, 9, 26)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(28, 10, 27)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(29, 10, 28)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(30, 10, 29)
```

```
INSERT INTO Medical_Symptoms(Medical_Symptom_ID, Symptom_ID, Medical_Condition_ID)
VALUES(31, 10, 30)
```

```
SELECT * FROM Medicine
SELECT * FROM Medical_Condition
```

```
INSERT INTO Medicine(Medicine_ID, MeName, Company_Make, Doctor_ID)
VALUES(1,'Aspirin','Alcon',1)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(2,'Antihistamines','Allergan',1)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(3,'Dilantin','Acatvis',3)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(4,'Haldol','Advaxis',5)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(5,'Nexium','Alcon',1)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(6,'Minocin','Almirall',2)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(7,'Valium','Anfantis',3)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(8,'Atgam','Tylenol',5)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(9,'Boniva','Bial',4)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(10,'Biolex','Grifolos',2)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(11,'Antihistamines','Allergan',3)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(12,'Ligament Restore','Orexo',3)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(13,'OrgaNext','Renovo',5)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(14,'Sanofi','Perdue Pharma',4)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(15,'Zentiva','UCB',2)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(16,'Shire','Solvay',5)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(17,'Shionogi','Rubicon',2)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(18,'Astepro','Revovo',1)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(19,'Azor','Allergan',4)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
VALUES(20,'Orexo','Noxxon',2)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)
```



```
VALUES(21,'Antihistamines','Allergan',5)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(22,'Menarini','Grindeks',2)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(23,'Lundbeck','Merck&Co',3)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(24,'Noxxon','Mylan',4)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(25,'OrgaNext','Allergan',5)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(26,'Sinarest','UCB',1)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(27,'Cantapill','Dabur',3)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(28,'Octacid','Dixicon',2)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(29,'O2','Neemaplan',5)
```

```
INSERT INTO Medicine(Medicine_ID,MeName, Company_Make, Doctor_ID)  
VALUES(30,'Hajmola','Dabur',4)
```

```
SELECT * FROM Medicine
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(1,1,1,5)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(2,2,2,15)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(3,3,2,10)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(4,4,2,20)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(5,5,3,23)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(6,6,5,16)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(7,7,4,19)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(8,8,4,30)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(9,9,3,7)
```

```
INSERT INTO Prescription(Prescription_ID, Patient_ID, Doctor_ID, Medicine_ID)  
VALUES(10,10,5,8)
```

OUTPUT TABLES

Patient Table

	Patient_ID	PFName	PLName	Age	PPhone	PStreetNumber	PStreetName	PCity	PState	PZip
1	1	Nathan	Kerr	19	315-555-5555	112	Lafayette Rd	Syracuse	New York	13205
2	2	Sebastian	Chapman	21	315-555-6666	17	James St	Syracuse	New York	13210
3	3	Heather	Cameron	15	315-555-7777	410	Comstock Ave	Syracuse	New York	13210
4	4	Olivia	Wallace	20	315-555-8888	4248	Nottingham Rd	Syracuse	New York	13244
5	5	Lily	Turner	30	315-556-9999	3	Ostrom Ave	Syracuse	New York	13225
6	6	Robinson	Curt	25	315-555-6666	12	Ostrom Ave	Los Angeles	CA	90205
7	7	Austin	Byron	29	805-280-2018	54	Skyline Blvd	Oakland	CA	94620
8	8	Tin	Chung	23	315-685-8898	69	Comstock Ave	Paperwork City	CA	94645
9	9	Cassandra	Alvarado	15	315-555-8888	1348	Elm St.	Denver	CO	80012
10	10	Beverly	Baker	17	315-556-9999	4387	College Drive	Dayton	OH	45404

✓ Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 10 rows

Doctor Table

	Doctor_ID	DFName	DLName	Hospital	DPhone	DStreetNumber	DStreetName	DCity	DState	DZip
1	1	Dorothy	Paige	St. Francis Hospital	315-555-0126	137	Sumner Ave	Syracuse	New York	13210
2	2	Amy	May	Cleveland Clinic	315-5555	777	Ackerman Ave	Syracuse	New York	13210
3	3	Charles	Duncan	Mount Sinai Hospital	315-444-5555	345	Lancaster Ave	Syracuse	New York	13210
4	4	Victor	Miller	NYU Winthrop Hospital	315-333-5565	7116	Lafayette Rd	Syracuse	New York	13205
5	5	Ray	Mysterio	Bellevue Hospital	315-129-5677	234	Lafayette Rd	Syracuse	New York	13205

✓ Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 5 rows

Symptom Table

	Symptom_ID	SName
1	1	Dry Cough
2	2	Intense Abdominal Pain
3	3	Recurrent Constipation
4	4	Intense Headaches
5	5	Sudden Knee Pain
6	6	Sudden Neck Pain
7	7	Blisters Skin Rashes
8	8	Dry and Itchy Eye
9	9	Dull and Achy Hip Pain
10	10	Nausea and Vomiting

✓ Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 10 rows

Patient Symptoms Table

	Patient_Symptom_ID	Patient_ID	Symptom_ID
1	1	1	10
2	2	1	5
3	3	2	3
4	4	3	9
5	5	4	8
6	6	5	7
7	7	6	1
8	8	7	2
9	9	8	4
10	10	9	6
11	11	10	3

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 11 rows

Medical Symptoms Table

	Medical_Symptom_ID	Symptom_ID	Medical_Condition_ID
1	1	1	1
2	2	1	2
3	3	1	3
4	4	1	4
5	5	2	5
6	6	2	6
7	7	2	7
8	8	4	10
9	9	4	11
10	10	3	8
11	11	3	9

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 31 rows

Medical Condition Table

	Medical_Condition_ID	MName	Severity	DOCTOR_ID
1	1	Common Cold	Medium	1
2	2	Hay Fever	Low	1
3	3	Influenza	Medium	3
4	4	Pneumonia	Medium	5
5	5	Appendicitis	Medium	1
6	6	Gall Stones	Medium	2
7	7	Kidney Stones	Medium	3
8	8	Encropresis	Low	5
9	9	Intussusception	High	4
10	10	Cluster Headache	Medium	2
11	11	Migrane	High	3

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 30 rows

Medicine Table

	Medicine_ID	MeName	Company_Make	Doctor_ID
1	1	Aspirin	Alcon	1
2	2	Antihistamines	Allergan	1
3	3	Dilantin	Acatvis	3
4	4	Haldol	Advaxis	5
5	5	Nexium	Alcon	1
6	6	Minocin	Almirall	2
7	7	Valium	Arfantis	3
8	8	Atgam	Tylenol	5
9	9	Boniva	Bial	4
10	10	Biolex	Grifolos	2
11	11	Antihistamines	Allergan	3

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 30 rows

Prescription Table

	Prescription_ID	Patient_ID	Doctor_ID	Medicine_ID
1	1	1	1	5
2	2	2	2	15
3	3	3	2	10
4	4	4	2	20
5	5	5	3	23
6	6	6	5	16
7	7	7	4	19
8	8	8	4	30
9	9	9	3	7
10	10	10	5	8

Query executed successfully.

ist-s-students.syr.edu (12.... | AD\advernek (69) | IST659_M004_advernek | 00:00:00 | 10 rows

MAJOR DATA QUESTIONS

- What are the common symptoms prevalent in the society?

```

566 SELECT Symptom.SName, COUNT(Patient.Patient_ID) AS PatientCount FROM Patient_Symptoms, Patient, Symptom
567 WHERE Patient.Patient_ID=Patient_Symptoms.Patient_ID AND Symptom.Symptom_ID=Patient_Symptoms.Symptom_ID
568 GROUP BY Symptom.SName;

```

100 %

Results Messages

	SName	PatientCount
1	Blisters Skin Rashes	1
2	Dry and Itchy Eye	1
3	Dry Cough	3
4	Dull and Achy Hip Pain	1
5	Intense Abdominal Pain	1
6	Intense Headaches	1
7	Nausea and Vomiting	1
8	Recurrent Constipation	2
9	Sudden Knee Pain	1
10	Sudden Neck Pain	1

Query executed successfully.

ist-s-students.syr.edu (12.... | AD\advernek (83)

2. What symptoms are more common among different age groups?

```

580 SELECT Symptom.SName, COUNT(Patient.Age) AS [Younger Than 20]
581 FROM Patient, Symptom, Patient_Symptoms
582 WHERE Patient.Patient_ID = Patient_Symptoms.Patient_ID AND Symptom.Symptom_ID = Patient_Symptoms.Symptom_ID AND Patient.Age < 20
583 GROUP BY Symptom.SName
584 SELECT Symptom.SName, COUNT(Patient.Age) AS [Older Than 20]
585 FROM Patient, Symptom, Patient_Symptoms
586 WHERE Patient.Patient_ID = Patient_Symptoms.Patient_ID AND Symptom.Symptom_ID = Patient_Symptoms.Symptom_ID AND Patient.Age > 20
587 GROUP BY Symptom.SName

```

100 %

Results Messages

SName	Younger Than 20
1 Dull and Achy Hip Pain	1
2 Nausea and Vomiting	1
3 Recurrent Constipation	1
4 Sudden Knee Pain	1
5 Sudden Neck Pain	1

SName	Older Than 20
1 Blisters Skin Rashes	1
2 Dry Cough	3
3 Intense Abdominal Pain	1
4 Intense Headaches	1
5 Recurrent Constipation	1

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (83) | IST659_M004_advernek

3. Is there any specific region that has some common symptoms?

```

570 SELECT Patient.PState AS State, Symptom.SName AS SymptomName, COUNT(Patient.Patient_ID) AS Frequency FROM Patient, Patient_Symptoms, Symptom
571 WHERE Patient.Patient_ID=Patient_Symptoms.Patient_ID AND Symptom.Symptom_ID=Patient_Symptoms.Symptom_ID
572 GROUP BY Symptom.SName, Patient.PState;
573
574 SELECT COUNT(Patient.Patient_ID) AS TotalUsers FROM Patient;
575
576 SELECT Doctor.Doctor_ID, Doctor.DFName, Doctor.DLName, COUNT(Prescription.Doctor_ID) FROM Prescription, Doctor
577 WHERE Doctor.Doctor_ID=Prescription.Doctor_ID
578 GROUP BY Doctor.DFName, Doctor.Doctor_ID, Doctor.DLName;

```

100 %

Results Messages

State	SymptomName	Frequency
CA	Dry Cough	1
CA	Intense Abdominal Pain	1
CA	Intense Headaches	1
CO	Sudden Neck Pain	1
New York	Blisters Skin Rashes	1
New York	Dry and Itchy Eye	1
New York	Dry Cough	2
New York	Dull and Achy Hip Pain	1
New York	Nausea and Vomiting	1
New York	Recurrent Constipation	1
New York	Sudden Knee Pain	1

Query executed successfully. | ist-s-students.svr.edu (12.... | AD\advernek (83) | IST659_M004_advernek | 00:00:00 | 12

4. How many patients used the service?

```
574 SELECT COUNT(Patient.Patient_ID) AS TotalUsers FROM Patient;
```

100 %

Results Messages

	TotalUsers
1	11

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (83)

5. Which are the most preferred doctors?

```
576 SELECT Doctor.Doctor_ID, Doctor.DFName, Doctor.DLName, COUNT(Prescription.Doctor_ID) AS Popularity FROM Prescription, Doctor
577 WHERE Doctor.Doctor_ID=Prescription.Doctor_ID
578 GROUP BY Doctor.DFName, Doctor.Doctor_ID, Doctor.DLName;
```

%

Results Messages

Doctor_ID	DFName	DLName	Popularity
1	Dorothy	Paige	1
2	Amy	May	4
3	Charles	Duncan	2
4	Victor	Miller	2
5	Ray	Mysterio	2

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\advernek (83) | IST659_M004.

INTERFACE

- Begin Form

The screenshot shows a software window titled 'Begin' with a sub-tab 'Login_form'. The main content area features a large blue rectangle with the text 'Healthcare On The Go' in white. Below this, there are two buttons: 'Doctor' (with a dashed border) and 'Patient' (with a solid border).

Doctor Login

The screenshot shows a software window titled 'Begin' with sub-tabs 'Login_form', 'dbo_Doctor', 'Doctor_user', and 'Action'. The 'Login_form' tab is active, displaying a blue rectangle with the text 'Doctor Portal'. Below this, there are two input fields: 'User Name' with the value 'Amy45' and 'Password' with the value '*****'. To the right of these fields are two buttons: 'Ok' (with a dashed border) and 'Cancel' (with a solid border).

- **Doctor may choose from these three actions**

Choose Your Action

[Add Medical Condition](#)

Create Prescription

Patient Symptoms

1) Doctor adds medical condition

Update Medical Condition

[illegible]

2) Doctor creates a prescription

Prescription

Patient_ID

Prescription

Prescription ID	Prescription	Medicine	Quantity	Unit	Price	Notes
1						
2						
3						
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9						
10						
11						
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100						

Record: 1 of 1 | No Filter | Search

Doctor Checks Medicine ID before putting it in

dbo_Medicine

Medicine_ID	MeName	Company_Make
1	Aspirin	Alcon
2	Antihistamines	Allergan
3	Dilantin	Acatvis
4	Haldol	Advaxis
5	Nexium	Alcon
6	Minocin	Almirall
7	Valium	Anfentis
8	Atgam	Tylenol
9	Boniva	Bial
10	Biolex	Grifolos
11	Antihistamines	Allergan
12	Ligament Restore	Orexo

3) Doctor checks patient symptoms

Patient Symptoms

Patient_ID	SName
11	Dry Cough
11	Dry Cough
10	Recurrent Constipation
9	Sudden Neck Pain
8	Intense Headaches
7	Intense Abdominal Pain
6	Dry Cough
5	Blisters Skin Rashes
4	Dry and Itchy Eye
3	Dull and Achy Hip Pain
2	Recurrent Constipation
1	Nausea and Vomiting
1	Sudden Knee Pain

Patient

- Patient Details

dbo_Patient

PFName

PLName

PPhone

PStreetNumber

PStreetName

PCity

PState

PZip

Age

Raghav

Rah

3158904934

456

Euclid Ave

Syracuse

New York

13211

25

Next

- Patient selects symptoms

Symptom

SName1

Sudden Neck Pain

☐ My Symptom is not mentioned here

Medical_Condition

MName	Severity	DOCTOR_ID
Herniated Disk	Medium	2
Sprain and Strains	Medium	5
Tension Headache	Low	2

Record: 1 of 3 No Filter Search

Contact Doctor

Additional Symptom

- **Contact Doctor**

Doctor

Doctor_ID	<input type="text" value="2"/>	<input type="button" value="Send Your Report"/>
First Name	<input type="text" value="Amy"/>	
Last Name	<input type="text" value="May"/>	
Hospital	<input type="text" value="Cleveland Clinic"/>	
DPhone	<input type="text" value="315-5555"/>	

Reports

We decided upon answering the data questions and presenting them as reports to the user so as to add functionality to the system and provide more control to the user along with a better ability to take informed decisions while using the system. Now the user can not only access and use the system but now he can also optimize his search and results based on these reports.

Common Symptoms Prevalent in the society

Patient Symptoms

Patient_ID	SName
1	Nausea and Vomiting
1	Sudden Knee Pain
2	Recurrent Constipation
3	Dull and Achy Hip Pain
4	Dry and Itchy Eye
5	Blisters Skin Rashes
6	Dry Cough
7	Intense Abdominal Pain
8	Intense Headaches
9	Sudden Neck Pain
10	Recurrent Constipation
14	Recurrent Constipation
16	Dry Cough
17	Intense Headaches

Symptoms Common in Different Age Group

Patient Symptoms (Age)

Age	SName
19	Nausea and Vomiting
19	Sudden Knee Pain
21	Recurrent Constipation
15	Dull and Achy Hip Pain
20	Dry and Itchy Eye
30	Blisters Skin Rashes
25	Dry Cough
29	Intense Abdominal Pain
23	Intense Headaches
15	Sudden Neck Pain
17	Recurrent Constipation
24	Recurrent Constipation
34	Dry Cough

Specific region with Common Symptoms

Region-wise Symptoms

PState	SName
New York	Nausea and Vomiting
New York	Sudden Knee Pain
New York	Recurrent Constipation
New York	Dull and Achy Hip Pain
New York	Dry and Itchy Eye
New York	Blisters Skin Rashes
CA	Dry Cough
CA	Intense Abdominal Pain
CA	Intense Headaches
CO	Sudden Neck Pain
OH	Recurrent Constipation

How many Patients used the service?

Patient_Details

PFName	PPhone	PCity	PState	PZip
Nathan	315-555-5555	Syracuse	New York	13205
Sebastian	315-555-6666	Syracuse	New York	13210
Heather	315-555-7777	Syracuse	New York	13210
Olivia	315-555-8888	Syracuse	New York	13244
Lily	315-556-9999	Syracuse	New York	13225
Robinson	315-555-6666	Los	CA	90205
Austin	805-280-2018	Oakland	CA	94620
Tin	315-685-8898	Paperwork	CA	94645
Cassandra	315-555-8888	Denver	CO	80012
Beverly	315-556-9999	Dayton	OH	45404

Preferred Doctors

Preferred_Doctor

Patient First Name	Patient Last Name	Doctor First Name	Doctor Last Name
Nathan	Kerr	Dorothy	Paige
Sebastian	Chapman	Amy	May
Heather	Cameron	Amy	May
Olivia	Wallace	Amy	May
Lily	Turner	Charles	Duncan
Robinson	Curt	Ray	Mysterio
Austin	Byron	Victor	Miller
Tin	Chung	Victor	Miller
Cassandra	Alvarado	Charles	Duncan
Beverly	Baker	Ray	Mysterio
Raghav	Raheja	Amy	May
Tanya	Maheshwari	Amy	May
John	L	Amy	May
Raghav	Raheia	Amv	Mav