Patient

Patient
- Patient_ID
- Patient_Name
- Patient_Age
- Patient_Gender
- Patient_Location_ID

Location
- Location_ID
- City_Name
- State_Name
- Country_Name

Patient_Location_ID

Pharmacy

Pharmacy_Inventory
- Inventory_Date
- Medicine_ID
- Instock_Indicator

Medicine_ID

Diagnosis

Doctor
- Doctor_ID
- Doctor_Name
- Doctor_Speciality
- Experience_Years

Prescription
- Prescription_ID
- Prescription_Line_ID
- Medicine_ID
- Prescribed_Dosage_Description

Prescription_ID

Medicine_ID

Diagnosis
- Diagnosis_ID
- Diagnosis_Date
- Patient_ID
- Doctor_ID
- Disease_ID
- Prescription_ID
- Disease_Severity_Code
- Weight_kg
- Temperature_F
- Systolic_Blood_Pressure_mmHg
- Diastolic_Blood_Pressure_mmHg

Patient_ID

Doctor_ID

Disease
- Disease_ID
- Disease_Name
- Disease_Description

Disease_ID

Medicine
- Medicine ID
- Medicine_Name
- Dosage_Description
- Medicine_Manufacturer
- Active_Ingredient_Name

Disease_Severity_Code

Disease_Severity
- Disease_Severity_Code
- Disease_Severity

Data Model

Entity Diagnosis

Record of Patient and Diagnosed disease

* Unq	Diagnosis_ID	INT	Unique Identifier for Diagnosis
*	Diagnosis_Date	DATE	Date of Diagnosis
*	Patient_ID	INT	Unique Identifier for Patient
*	Doctor_ID	INT	Unique Identifier for Doctor
*	Disease_ID	INT	Unique Identifier for Disease
*	Prescription_ID	INT	Unique Identifier for Prescription
*	Disease_Severity_Code	INT	Code of Severity of the disease diagnoised
*	Weight_kg	DECIMAL	Weight in kg
*	Temperature_F	DECIMAL	Temperature Reading in Farenheit
*	Systolic_Blood_Pressure_mmHg	INT	Hi Blood Pressure in mmHg
*	Diastolic_Blood_Pressure_mmHg	INT	Lo Blood Pressure in mm Hg

Indexes

Unq	unq_Doctor_ID	Diagnosis_ID	

Relationships

Vir	fk_diagnosis_disease (Disease_ID) ref Disease (Disease_ID)
Vir	fk_diagnosis_patient (Patient_ID) ref Patient (Patient_ID)
Vir	fk_diagnosis_doctor (Doctor_ID) ref Doctor (Doctor_ID)
Vir	fk_diagnosis_disease_severity (Disease_Severity_Code) ref Disease_Severity (Disease_Severity_Code)
Vir	fk_diagnosis_prescription (Prescription_ID) ref Prescription (Medicine_ID)

Entity Disease

Record of Disease

* Pk	Disease_ID	INT	Unique Identifier for Disease
*	Disease_Name	VARCHAR(50)	Name of Disease
*	Disease_Description	VARCHAR(100)	Details of Disease

Indexes

Pk	pk_disease	Disease_ID

Entity Disease_Severity

Details of Disease Severity

* Pk	Disease_Severity_Code	INT	Code of Severity of the disease diagnoised
*	Disease_Severity	VARCHAR(10)	Severity of the disease diagnoised

Indexes

Pk	pk_code of severity of the disease diagnoised	Disease_Severity_Code

Entity Doctor

Record of Doctors

* Pk	Doctor_ID	INT	Unique Identifier for Doctor
*	Doctor_Name	VARCHAR(50)	Name of the doctor
*	Doctor_Speciality	VARCHAR(100)	Speciality area of the Doctor
*	Experience_Years	INT	Years of experience of the doctor

Indexes

Pk	pk_doctor	Doctor_ID

Entity Location

* Pk	Location_ID	INT	Unique Identifier for Location
*	City_Name	VARCHAR(100)	Name of the city
*	State_Name	VARCHAR(100)	Name of the state
*	Country_Name	VARCHAR(100)	Name of the country

Indexes

Pk	pk_location	Location_ID	

Entity Medicine

Record of Medicine

* Pk	Medicine ID	INT	Unique Identifier for Medicine
*	Medicine_Name	VARCHAR(50)	Name of Medicine
*	Dosage_Description	INT	Doasge Descriptionof Medication
*	Medicine_Manufacturer	VARCHAR(100)	Manufacturer of Medicine
*	Active_Ingredient_Name	VARCHAR(100)	Name of Active Ingredient of medicine]

Indexes

Pk	pk_medication	Medicine ID	

Entity Patient

Record of Patients

* Pk	Patient_ID	INT	Unique Identifier for Patient
*	Patient_Name	VARCHAR(50)	Name of the Patient
*	Patient_Age	INT	Age of the Patient
*	Patient_Gender	VARCHAR(10)	Gender of the Patient
*	Patient_Location_ID	INT	Location of the Patient

Indexes

Unq	unq_Patient_ID	Patient_ID	
Pk	pk_patient	Patient_ID	

Relationships

Vir	fk_patient_location (Patient_Location_ID) ref Location (Location_ID)		

Entity Pharmacy_Inventory

* Pk	Inventory_Date	DATE	Date
* Pk	Medicine_ID	INT	Unique Identifier for medicine
*	Instock_Indicator	INT	Indicator indicates 1 if medicine is in stock in the given date else 0

Indexes

Pk	pk_pharmacy	Inventory_Date, Medicine_ID	

Relationships

Vir	fk_pharmacy_medicine (Medicine_ID) ref Medicine (Medicine ID)		

Entity Prescription

* Pk	Prescription_ID	INT	Unique Identifier for Prescription
*	Prescription_Line_ID	INT	Indicates each line in prescription
*	Medicine_ID	INT	Unique Identifier for Medicine
*	Prescribed_Dosage_Description	VARCHAR(50)	Prescribed Doasge Description of Medication

Indexes

Pk	pk_prescription	Prescription_ID	

Relationships

Entity Prescription

Vir	fk_prescription_medicine (Medicine_ID) ref Medicine (Medicine ID)