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Srn: 202200282

Roll: 08

Batch: B1

DWDM ASSIGNMENT 05

Code:

**1)Make a star schema for hospital management system.**

create database DWDM\_assig5;

use DWDM\_assig5;

CREATE TABLE Dim\_Patient (

Patient\_ID INT PRIMARY KEY AUTO\_INCREMENT,

First\_Name VARCHAR(50),

Last\_Name VARCHAR(50),

DOB DATE,

Gender VARCHAR(10),

Address VARCHAR(255),

Contact\_Info VARCHAR(50),

Insurance\_Provider VARCHAR(100),

Policy\_Number VARCHAR(50)

);

CREATE TABLE Dim\_Doctor (

Doctor\_ID INT PRIMARY KEY AUTO\_INCREMENT,

First\_Name VARCHAR(50),

Last\_Name VARCHAR(50),

Specialization VARCHAR(100),

Department VARCHAR(100),

Contact\_Info VARCHAR(50)

);

CREATE TABLE Dim\_Service (

Service\_ID INT PRIMARY KEY AUTO\_INCREMENT,

Service\_Type VARCHAR(50),

Room\_Number INT,

Bed\_Number INT

);

CREATE TABLE Dim\_Medication (

Medication\_ID INT PRIMARY KEY AUTO\_INCREMENT,

Drug\_Name VARCHAR(100),

Dosage VARCHAR(50),

Frequency VARCHAR(50),

Start\_Date DATE,

End\_Date DATE

);

CREATE TABLE Dim\_Date (

Date\_Key INT PRIMARY KEY AUTO\_INCREMENT,

Full\_Date DATE,

Day INT,

Month INT,

Year INT

);

CREATE TABLE Dim\_Date (

Date\_Key INT PRIMARY KEY AUTO\_INCREMENT,

Full\_Date DATE,

Day INT,

Month INT,

Year INT

);

CREATE TABLE Fact\_Treatment (

Treatment\_ID INT PRIMARY KEY AUTO\_INCREMENT,

Patient\_ID INT,

Doctor\_ID INT,

Service\_ID INT,

Diagnosis\_ID INT,

Medication\_ID INT,

Date\_Key INT,

Cost DECIMAL(10, 2),

Insurance\_Claim DECIMAL(10, 2),

Amount\_Paid DECIMAL(10, 2),

FOREIGN KEY (Patient\_ID) REFERENCES Dim\_Patient(Patient\_ID),

FOREIGN KEY (Doctor\_ID) REFERENCES Dim\_Doctor(Doctor\_ID),

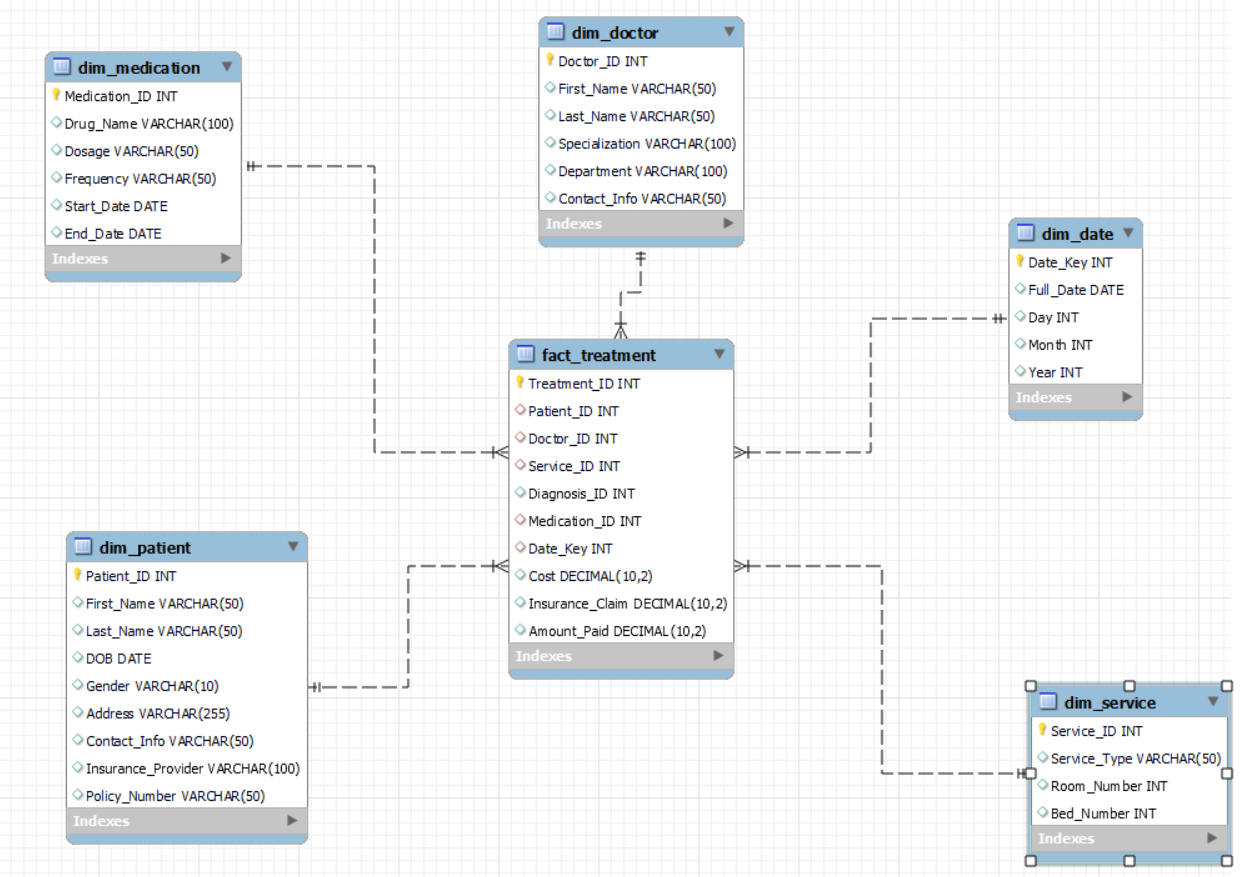
FOREIGN KEY (Service\_ID) REFERENCES Dim\_Service(Service\_ID),

FOREIGN KEY (Medication\_ID) REFERENCES Dim\_Medication(Medication\_ID),

FOREIGN KEY (Date\_Key) REFERENCES Dim\_Date(Date\_Key)

);

OUTPUT:



**2) Make a snowflake schema for hospital management system.**

To make this we just have to add few more queries in to main queries.

CREATE TABLE Dim\_Specialization (

Specialization\_ID INT PRIMARY KEY AUTO\_INCREMENT,

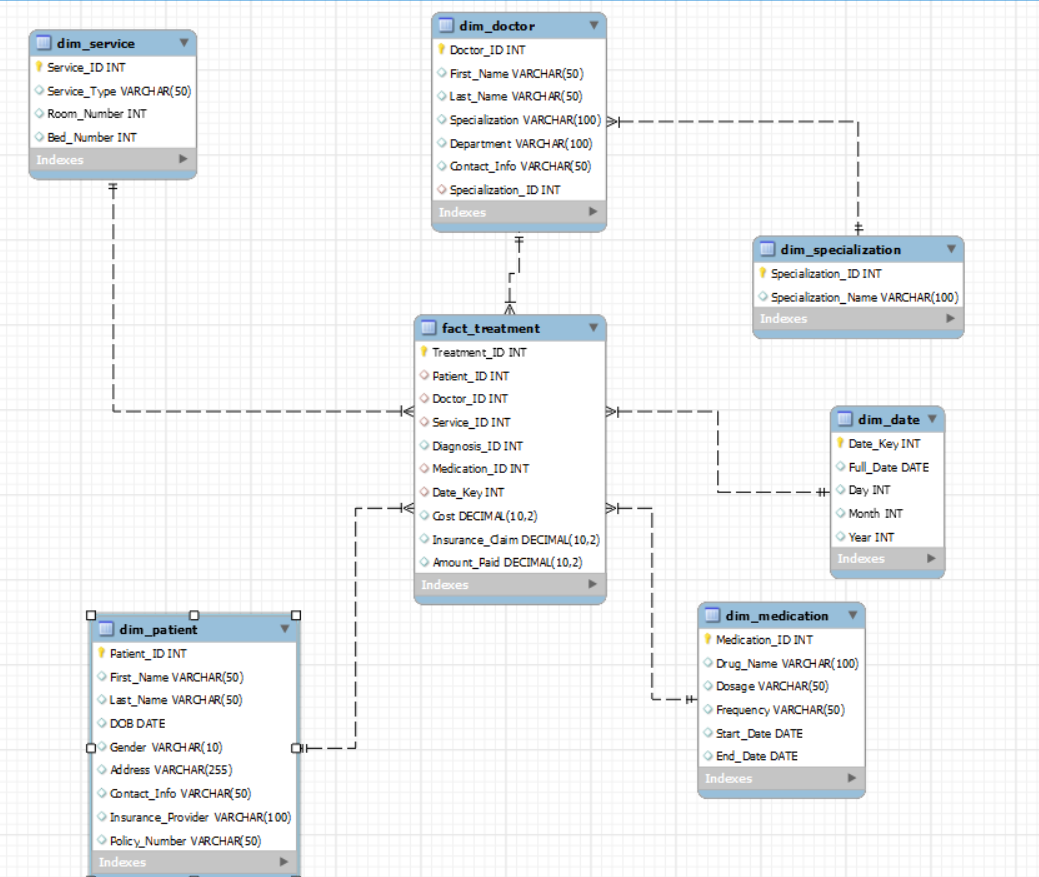
Specialization\_Name VARCHAR(100)

);

ALTER TABLE Dim\_Doctor

ADD COLUMN Specialization\_ID INT,

ADD FOREIGN KEY (Specialization\_ID) REFERENCES Dim\_Specialization(Specialization\_ID);



**3) Make a galaxy schema for hospital management system.**

CREATE TABLE Fact\_Appointment (

Appointment\_ID INT PRIMARY KEY AUTO\_INCREMENT,

Patient\_ID INT,

Doctor\_ID INT,

Date\_Key INT,

Appointment\_Status VARCHAR(50),

Appointment\_Cost DECIMAL(10, 2),

FOREIGN KEY (Patient\_ID) REFERENCES Dim\_Patient(Patient\_ID),

FOREIGN KEY (Doctor\_ID) REFERENCES Dim\_Doctor(Doctor\_ID),

FOREIGN KEY (Date\_Key) REFERENCES Dim\_Date(Date\_Key)

);

-- Connect Fact\_Appointment to Dim\_Patient

ALTER TABLE Fact\_Appointment

ADD CONSTRAINT fk\_patient FOREIGN KEY (Patient\_ID)

REFERENCES Dim\_Patient(Patient\_ID);

-- Connect Fact\_Appointment to Dim\_Doctor

ALTER TABLE Fact\_Appointment

ADD CONSTRAINT fk\_doctor FOREIGN KEY (Doctor\_ID)

REFERENCES Dim\_Doctor(Doctor\_ID);

-- Connect Fact\_Appointment to Dim\_Date

ALTER TABLE Fact\_Appointment

ADD CONSTRAINT fk\_date FOREIGN KEY (Date\_Key)

REFERENCES Dim\_Date(Date\_Key);

