

Hospital Database Project

-- DDL STATEMENTS

DROP TABLE IF EXISTS Consists_of;

DROP TABLE IF EXISTS Physician_order;

DROP TABLE IF EXISTS Diagnoses;

DROP TABLE IF EXISTS Assesses;

DROP TABLE IF EXISTS Employs;

DROP TABLE IF EXISTS Consumes;

DROP TABLE IF EXISTS Patient;

DROP TABLE IF EXISTS Bed;

DROP TABLE IF EXISTS Care_Center;

DROP TABLE IF EXISTS Nurse;

DROP TABLE IF EXISTS Treatment;

DROP TABLE IF EXISTS Item;

DROP TABLE IF EXISTS Physician;

CREATE TABLE IF NOT EXISTS Physician (

Physician_ID SMALLINT(1) NOT NULL AUTO_INCREMENT,

Physician_Name VARCHAR(30) NOT NULL,

PRIMARY KEY (Physician_ID)

);

CREATE TABLE IF NOT EXISTS Item (

Item_No SMALLINT(1) NOT NULL AUTO_INCREMENT,

Item_Desc TEXT(2048) NOT NULL,

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Item_Cost DECIMAL(10) NOT NULL,  
PRIMARY KEY (Item_No)  
);
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CREATE TABLE IF NOT EXISTS Treatment (  
Treatment_Code SMALLINT(1) NOT NULL,  
Treatment_Name VARCHAR(30) NOT NULL,  
PRIMARY KEY (Treatment_Code)  
);
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CREATE TABLE IF NOT EXISTS Nurse (  
Nurse_No SMALLINT(1) NOT NULL AUTO_INCREMENT,  
Nurse_Name VARCHAR(30) NOT NULL,  
PRIMARY KEY (Nurse_No)  
);
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CREATE TABLE IF NOT EXISTS Care_Center (  
CC_id SMALLINT(1) NOT NULL,  
CC_Name VARCHAR(30) NOT NULL,  
Nurse_in_charge SMALLINT(1) NOT NULL,  
PRIMARY KEY (CC_id)  
);
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CREATE TABLE IF NOT EXISTS Bed (  
Room_No SMALLINT(1) NOT NULL,  
Bed_No SMALLINT(1) NOT NULL,
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CC_id SMALLINT(1) NOT NULL,  
PRIMARY KEY (Room_No, Bed_No),  
FOREIGN KEY (CC_id) REFERENCES Care_Center(CC_id)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
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```
CREATE TABLE IF NOT EXISTS Patient (  
Patient_MRN SMALLINT(1) NOT NULL,  
Patient_Name VARCHAR(30) NOT NULL,  
Room_No SMALLINT(1) NOT NULL,  
Bed_No SMALLINT(1) NOT NULL,  
PRIMARY KEY (Patient_MRN),  
FOREIGN KEY (Room_No, Bed_No) REFERENCES Bed(Room_No, Bed_No)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
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```
CREATE TABLE IF NOT EXISTS Consumes (  
Item_No SMALLINT(1) NOT NULL,  
Patient_MRN SMALLINT(1) NOT NULL,  
Date_consumed DATETIME NOT NULL,  
Qty SMALLINT(1) NOT NULL,  
PRIMARY KEY (Item_No, Patient_MRN),  
FOREIGN KEY (Item_No) REFERENCES Item(Item_No)  
ON DELETE RESTRICT ON UPDATE CASCADE,  
FOREIGN KEY (Patient_MRN) REFERENCES Patient(Patient_MRN)  
ON DELETE RESTRICT ON UPDATE CASCADE
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);

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CREATE TABLE IF NOT EXISTS Employs (  
    CC_id SMALLINT(1) NOT NULL,  
    EMP_No SMALLINT(1) NOT NULL,  
    Hours TINYINT(1) NOT NULL,  
    PRIMARY KEY (CC_id, EMP_No),  
    FOREIGN KEY (CC_id) REFERENCES Care_Center(CC_id)  
        ON DELETE RESTRICT ON UPDATE CASCADE,  
    FOREIGN KEY (EMP_No) REFERENCES Nurse(Nurse_No)  
        ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

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CREATE TABLE IF NOT EXISTS Assesses (  
    Visit_ID SMALLINT(1) NOT NULL,  
    Date DATETIME NOT NULL,  
    Weight SMALLINT(1) NOT NULL,  
    BP VARCHAR(7) NOT NULL,  
    EMP_No SMALLINT(1) NOT NULL,  
    Patient_MRN SMALLINT(1) NOT NULL,  
    PRIMARY KEY (Visit_ID),  
    FOREIGN KEY (EMP_No) REFERENCES Nurse(Nurse_No)  
        ON DELETE RESTRICT ON UPDATE CASCADE,  
    FOREIGN KEY (Patient_MRN) REFERENCES Patient(Patient_MRN)  
        ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

```
CREATE TABLE IF NOT EXISTS Diagnoses (  
    Patient_MRN SMALLINT(1) NOT NULL,  
    Physician_ID SMALLINT(1) NOT NULL,  
    Diag_Date DATETIME NOT NULL,  
    Diag_Code SMALLINT(1) NOT NULL,  
    Diag_Name VARCHAR(30) NOT NULL,  
    PRIMARY KEY (Patient_MRN, Physician_ID),  
    FOREIGN KEY (Patient_MRN) REFERENCES Patient(Patient_MRN)  
        ON DELETE RESTRICT ON UPDATE CASCADE,  
    FOREIGN KEY (Physician_ID) REFERENCES Physician(Physician_ID)  
        ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

```
CREATE TABLE IF NOT EXISTS Orders (  
    Order_ID SMALLINT(1) NOT NULL,  
    Physician_ID SMALLINT(1) NOT NULL,  
    Patient_MRN SMALLINT(1) NOT NULL,  
    Order_DayTime DATETIME NOT NULL,  
    PRIMARY KEY (Order_ID),  
    FOREIGN KEY (Patient_MRN) REFERENCES Patient(Patient_MRN)  
        ON DELETE RESTRICT ON UPDATE CASCADE,  
    FOREIGN KEY (Physician_ID) REFERENCES Physician(Physician_ID)  
        ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

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CREATE TABLE IF NOT EXISTS Consists_Of (  
    Order_ID SMALLINT(1) NOT NULL,  
    Treatment_Code SMALLINT(1) NOT NULL,  
    Treatment_Date DATE NOT NULL,  
    Treatment_Time TIME NOT NULL,  
    Result VARCHAR(30) NOT NULL,  
    PRIMARY KEY (Order_ID, Treatment_Code),  
    FOREIGN KEY (Order_ID) REFERENCES Orders(Order_ID)  
        ON DELETE RESTRICT ON UPDATE CASCADE,  
    FOREIGN KEY (Treatment_Code) REFERENCES Treatment(Treatment_Code)  
        ON DELETE RESTRICT ON UPDATE CASCADE  
);
```