Table: Patient

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| PatientID | PK; Unique sequential patient ID number | Int |  | Y |  | Y |  |  |  |  |
| FirstName | First name of the patient | nvarchar | 20 |  |  |  |  |  |  |  |
| LastName | Last name of the patient | nvarchar | 20 |  |  |  |  |  |  |  |
| Gender | Gender of the patient | nvarchar | 20 |  |  |  |  |  |  |  |
| DOB | Date of birth of the patient | Nvarchar | 10 |  |  |  |  |  |  |  |
| Street | Street of the patient | nvarchar | 20 |  |  |  |  |  |  |  |
| City | City of the patient | nvarchar | 15 |  |  |  |  |  |  |  |
| State | State of the patient | char | 2 |  |  |  |  |  | LIKE ‘[A-Z] [A-Z]’ |  |
| Zip | Zip code of the patient | nvarchar | 10 |  |  |  |  |  |  |  |
| BedID | FK: Bed number of the patient | int |  | Y |  | Y |  |  |  |  |
| Age | Age of the patient | char | 3 |  |  |  |  |  |  |  |

Table: Doctor

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| DoctorID | PK: Uniques sequential doctor ID number | int |  | Y |  | Y |  |  |  |  |
| First | First name of the doctor | nvarchar | 15 |  |  |  |  |  |  |  |
| Last | Last name of the doctor | nvarchar | 20 |  |  |  |  |  |  |  |
| Street | Street of the doctor | nvarchar | 20 |  |  |  |  |  |  |  |
| City | City of the doctor | nvarchar | 15 |  |  |  |  |  |  |  |
| State | State of the doctor | char | 2 |  |  |  |  |  | LIKE ‘[A-Z] [A-Z]’ |  |
| Zip | Zip code of the doctor | nvarchar | 10 |  |  |  |  |  |  |  |
| Phone | Phone of the doctor | nvarchar | 15 |  |  |  |  |  |  | Y |
| AltPhone | Alternate phone of the doctor | nvarchar | 15 |  |  |  |  |  |  | Y |
| Email | Email of the doctor | nvarchar | 20 |  |  |  |  |  |  |  |
| Specialty | Specialty of the doctor | type | 1 |  |  |  |  |  | ? |  |

Table: Nurse

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| NurseID | PK: Unique sequential nurse ID number | int | 10 | Y |  | Y |  |  |  |  |
| First | First name of the nurse | nvarchar | 15 |  |  |  |  |  |  |  |
| Last | Last name of the nurse | nvarchar | 20 |  |  |  |  |  |  |  |
| Street | Street of the nurse | nvarchar | 20 |  |  |  |  |  |  |  |
| City | City of the nurse | nvarchar | 15 |  |  |  |  |  |  |  |
| State | State of the nurse | char | 2 |  |  |  |  |  | LIKE ‘[A-Z] [A-Z]’ |  |
| Zip | Zip code of the nurse | nvarchar | 10 |  |  |  |  |  |  |  |
| Phone | Phone number of the nurse | nvarchar | 20 |  |  |  |  |  |  | Y |
| SupervisorID | FK: to Nurse table. Unique nurse supervisor ID number | nvarchar | 10 |  |  |  |  |  |  |  |
| Email | Email of the nurse | nvarchar | 20 |  |  |  |  |  |  |  |
| Specialty | Speciality of the nurse | char | 1 |  |  |  |  |  |  |  |

Table: Ward

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| WardID | PK: Unique sequential ward ID number | int |  | Y |  | Y |  |  |  |  |
| Location | Location of the ward | Nvarchar | 20 |  |  |  |  |  |  |  |
| Phone | Phone of the ward | nvarchar | 20 |  |  |  |  |  |  | Y |
| ChargeNurseID | FK: to Nurse table. ChargeNurse of the ward | int |  |  |  |  |  |  |  |  |

Table: Bed

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| BedID | PK: Unique bed ID number | Int |  | Y |  | Y |  |  |  |  |
| Size | Size of the bed | nvarcahr | 20 |  |  |  |  |  | [Type] = (‘S’), [Type] = (‘L’)  OR [Type] = (‘X’) |  |
| WardID | FK: to Ward table. Bed location in ward | int | 20 |  |  |  |  |  |  |  |
| Type | Type of bed | char | 1 |  |  |  |  |  | [Type] =(‘E’)  OR  [Type] = (‘M’) |  |

Table: Treatment

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| TreatmentNo | PK: Unique sequential treatment ID number | int |  | Y |  | Y |  |  |  |  |
| Name | Name of the treatment | nvarchar | 15 |  |  |  |  |  |  |  |
| Description | Description of the treatment | nvarchar | 50 |  |  |  |  |  |  |  |
| Charge | Charge for the treatment | nvarchar | 20 |  |  |  |  |  |  |  |

Table: Item

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| ItemID | Pk: Unique sequential item ID number | int |  | Y |  | Y |  |  |  |  |
| Name | Name of item | nvarchar | 20 |  |  |  |  |  |  |  |
| Charge | Charge of item | nvarchar | 10 |  |  |  |  |  |  |  |

Table: Nurse Assignment

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| NurseID | Nurse assignment | int |  | Y |  | Y |  |  |  |  |
| WardID | Ward of assignment | int |  | Y |  | Y |  |  |  |  |
| Date | Date of assignment | int |  | Y |  | Y |  |  |  |  |
| Hours | Hours of assignment | nvarchar | 20 |  |  |  |  |  |  |  |

Table: Item Charge

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| ChargeID | Charge ID of item | int |  | Y |  | Y |  |  |  |  |
| Quantity | Quantity of item | nvarchar | 20 |  |  |  |  |  |  |  |
| Date | Date of item charge | nva  rchar | 15 |  |  |  |  |  |  |  |
| ItemID | FK: to Item table; item for patient | int |  |  |  |  |  |  |  |  |
| PatientID | FK: to Patient table; item charge to patient | int |  |  |  |  |  |  |  |  |

Table: Admit Discharge

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| AdmitID | PK: Unique sequential admit ID number | int |  | Y |  | Y |  |  |  |  |
| AdmitDate | Date admitted |  |  |  |  |  |  |  |  |  |
| DischargeDate | Date discharged |  |  |  |  |  |  |  |  |  |
| PatientID | FK: to Patient table; patient to be admitted or discharged | int |  |  |  |  |  |  |  |  |
| AdmitDoc | FK:to Doctor table; admit doctor for patient | int |  |  |  |  |  |  |  |  |
| DishargeDoc | FK:to Doctor table; doctor to discharge patients | int |  |  |  |  |  |  |  |  |

Table: Treatment Administration

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| PatientID | CPK: sequential patient ID number | int |  | Y |  | Y |  |  |  |  |
| DoctorID | CPK: sequential doctor ID number | int |  | Y |  | Y |  |  |  |  |
| TreatmentID | CPK: sequential treatment ID number | int |  | Y |  | Y |  |  |  |  |
| DateTime | CPK: date and time for treatment administration | int |  | Y |  | Y |  |  |  |  |
| Results | Results of the treatment | nvarchar | 50 |  |  |  |  |  |  |  |

Table: Nurse Patient

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Index** | **Default** | **Rule** | **Check** | **Allow Nulls** |
| EventID | PK: Unique sequential event ID number | int |  | Y |  |  |  |  |  |  |
| EventType | Type of event | nvarchar | 20 |  |  |  |  |  |  |  |
| Date | Date of event | nvarchar | 15 |  |  |  |  |  |  |  |
| Time | Time of event | nvarchar | 5 |  |  |  |  |  |  |  |
| PatientID | FK: to Patient table | int |  |  |  |  |  |  |  |  |
| NurseID | FK: to Nurse table | int |  |  |  |  |  |  |  |  |