Table: **AdminTreatment**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| AdminTreatmentID | **PK;** Unique sequential AdminTreatment ID number | Int |  | **Y** | **Y** |  |  |  |  | **Y** |
| Date | Date of administered treatment to patient | date |  |  |  |  |  |  |  | Y |
| Time | Time of administered treatment to patient | time |  |  |  |  |  |  |  |  |
| Results | Results of the patient’s treatment administration | nvarchar | 50 |  |  |  |  |  |  |  |
| DoctorID | **FK**; To Physician table | Int |  |  |  |  |  |  |  | Y |
| PatientID | **FK**; to Patient table | Int |  |  |  |  |  |  |  | Y |
| TreatmentID | **FK**; to Treatment table | int |  |  |  |  |  |  |  |  |

Table: **AdmitDischarge**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| AdmitID | **PK**; Unique sequential Admission ID number | int |  | Y | Y |  |  |  |  | Y |
| AdmitDate | Date patient admitted to hospital | date |  |  |  |  |  |  |  | Y |
| DischargeDate | Date patient discharged from hospital | date |  |  |  |  |  |  | Y |  |
| PatientID | **FK**; to patient table | int |  |  |  |  |  |  |  | Y |

Table: **BED**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| BedID | **PK**; Unique sequential Bed ID number | int |  | Y | Y |  |  |  |  | Y |
| Size | Size of bed | nvarchar | 11 |  |  |  |  |  |  |  |
| Type | Type of bed | nvarchar | 10 |  |  |  |  | [Type] = (‘Electronic’)  OR  [Type] = (‘Manual’) |  |  |
| PatientID | **FK**; to patient table | Int |  |  |  |  |  |  |  | Y |
| WardID | **FK;** to patient table | int |  |  |  |  |  |  |  | Y |

Table: **CARE**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| CareID | **PK**; Unique sequential Care ID number | int |  | Y | Y |  |  |  |  | Y |
| Event | Description of care event | nvarchar | 50 |  |  |  |  |  |  |  |
| Date | Date of care event | date |  |  |  |  |  |  |  | Y |
| Time | Time of care event | time | 6 |  |  |  |  |  |  |  |
| PatientID | **FK**; to Patient table | Int |  |  |  |  |  |  |  | Y |
| NurseID | **FK**; to Nurse table | int |  |  |  |  |  |  |  | Y |

Table: **ChargeItem**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| Date | Date of item purchase | date |  |  |  |  |  |  |  | Y |
| Quantity | Quantity of item purchased | smallint |  |  |  |  |  |  |  |  |
| PatientID | **FK**; references patient table | int |  |  |  |  |  |  |  | Y |
| ItemID | **FK**; references item table | int |  |  |  |  |  |  |  | Y |

Table: **Item**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| ItemID | **PK**; Unique sequential Item ID number | int |  | Y | Y |  |  |  |  | Y |
| Name | Name of the item | nvarchar | 30 |  |  |  |  |  |  |  |
| Charge | The amount charged for the item | money |  |  |  |  |  |  |  |  |

Table: **Nurse**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| NurseID | **PK**; Unique sequential nurse ID number | int |  | Y | Y |  |  |  |  | Y |
| FirstName | First name of the Nurse | nvarchar | 20 |  |  |  |  |  |  |  |
| LastName | Last name of the Nurse | nvarchar | 30 |  |  |  |  |  |  |  |
| Street | Street of the Nurse | nvarchar | 50 |  |  |  |  |  |  |  |
| City | City of the Nurse | nvarchar | 30 |  |  |  |  |  |  |  |
| State | State of the Nurse | char | 2 |  |  | ‘FL’ |  | LIKE ‘[A-Z] [A-Z]’ |  |  |
| Zip | Zip code of the Nurse | char | 5 |  |  |  |  | LIKE ‘[0-9] [0-9] [0-9] [0-9] [0-9]’ |  |  |
| Phone | Phone number of the Nurse | char | 14 |  |  |  | PhoneRule |  |  |  |
| AltPhone | Alternate Phone number of the nurse | char | 14 |  |  |  | PhoneRule |  | Y |  |
| SupervisorID | Recursive **FK**; Synonym for nurseID; One nurse supervises another nurse | int |  |  |  |  |  |  | Y |  |

Table: **NurseCertification**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| Certification | **CPK**; Nurse’s certification | varchar | 50 |  |  |  |  |  |  | Y |
| NurseID | **CPK**; **FK**; to Nurse table; NurseID of the nurse with the certification | Int |  |  |  |  |  |  |  | Y |

Table: **NurseWardAssignment**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| NurseWardAssignmentID | **PK**; Unique sequential ID number for tracking nurse shift assignments at wards | int |  | Y | Y |  |  |  |  | Y |
| Date | Date of nurse’s ward assignment | date |  |  |  |  |  |  |  | Y |
| Hours | Amount of hours nurse is assigned to the ward | decimal | (4,2) |  |  |  |  |  |  |  |
| NurseID | **FK**; To Nurse table | int |  |  |  |  |  |  |  | Y |

Table: **Patient**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| PatientID | **PK**; Unique sequential Patient ID number | int |  | Y | Y |  |  |  |  | Y |
| FirstName | First Name of Patient | nvarchar | 30 |  |  |  |  |  |  | Y |
| LastName | Last name of Patient | nvarchar | 30 |  |  |  |  |  |  | Y |
| Gender | Gender of Patient | nvarchar | 6 |  |  |  |  |  |  |  |
| DOB | Patient date of birth |  |  |  |  |  |  |  |  |  |
| Age | Calculated Patient age from DOB | int |  |  |  |  |  |  |  |  |
| Street | Street of the Patient | nvarchar | 20 |  |  |  |  |  |  |  |
| City | City of the Patient | nvarchar | 15 |  |  |  |  |  |  |  |
| State | State of the Patient | char | 2 |  |  | ‘FL’ |  | LIKE ‘[A-Z] [A-Z]’ |  |  |
| Zip | Zip code of the Patient | char | 5 |  |  |  |  | LIKE ‘[0-9] [0-9] [0-9] [0-9] [0-9]’ |  |  |
| Phone | Phone number of the patient | Char | 14 |  |  |  | Phone Rule |  | Y |  |
| AltPhone | Alternate Phone number of the patient | Char | 14 |  |  |  |  |  | Y |  |
| Email | Email address of patient | nvarchar | 30 |  |  |  |  |  | Y |  |

Table: **Physician**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| DoctorID | **PK**; Unique sequential Doctor/Physician ID number | int |  | Y | Y |  |  |  |  | Y |
| FirstName | First name of the Physician | nvarchar | 20 |  |  |  |  |  |  |  |
| LastName | Last name of the Physician | nvarchar | 30 |  |  |  |  |  |  |  |
| Phone | Phone number of the Physician | Char | 14 |  |  |  | Phone Rule |  | Y |  |
| Street | Street of the Physician | nvarchar | 20 |  |  |  |  |  |  |  |
| City | City of the Physician | nvarchar | 15 |  |  |  |  |  |  |  |
| State | State of the Physician | char | 2 |  |  |  |  | LIKE ‘[A-Z] [A-Z]’ |  |  |
| Zip | Zip code of the Physician | Char | 5 |  |  |  |  |  |  |  |
| Email | Email of Phsyician | nvarchar | 25 |  |  |  |  |  | Y |  |
| AltPhone | Alternate Phone number of Physician. | Char | 14 |  |  |  | Phone Rule |  | Y |  |
| Specialty | Specialty of the physician | nvarchar | 30 |  |  |  |  |  | Y | Y |

Table: **Treatment**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| TreatmentID | **PK**; Unique sequential Treatment ID number | int |  | Y | Y |  |  |  |  | Y |
| Name | Name of treatment | nvarchar | 30 |  |  |  |  |  |  | y |
| Description | Description of treatment | nvarchar | 150 |  |  |  |  |  |  |  |
| Charge | Charge for treatment | Money |  |  |  |  |  |  |  |  |

Table: **Ward**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| WardID | **PK**; Unique sequential Ward ID number | int |  | Y |  |  |  |  |  | Y |
| Location | Location of the Ward | nvarchar | 15 |  |  |  |  |  |  |  |
| Phone | Phone number of the Ward | char | 14 |  |  |  |  |  |  |  |
| ChargeNurseID | ChargeNurseID is synonym for NurseID**. FK**; To Nurse table | int |  |  |  |  |  |  |  |  |