Table: **AdmitDischarge**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **AdmitID** | **PK**; Unique sequential admit ID number | int |  | Y |  |  |  |  |  | Y |
| **AdmitDate** | Date the patient is admitted | date |  |  |  |  |  |  |  |  |
| **DischargeDate** | Date the patient is discharged | date |  |  |  |  |  |  |  |  |
| **PatientID** | **FK** to Patient table | int |  |  |  |  |  |  |  |  |
| **AdmitDoc** | **FK** to Physician table; Synonym for DoctorID | int |  |  |  |  |  |  |  |  |
| **DischargeDoc** | **FK** to Physician table; Synonym for DoctorID | int |  |  |  |  |  |  |  |  |

Table: **Bed**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **BedID** | **PK**; Unique bed number | int |  | Y |  |  |  |  |  | Y |
| **Size** | Size of the bed | char | 2 |  |  | ‘L’ |  | LIKE ‘S’ OR ‘M’ OR ‘L’ OR ‘XL’ |  |  |
| **Type** | Type of bed | char | 1 |  |  | ‘M’ |  | LIKE ‘E’ OR ‘M’ |  |  |
| **Availability** | Availability of the bed | char | 1 |  |  | ‘O’ |  | LIKE ‘O’ OR ‘A’ |  |  |
| **WardID** | **FK** to Ward Table | int |  |  |  |  |  |  |  |  |

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 |
| **Event** | Name of the event | nvarchar | 15 |  |  |  |  |  |  |  |
| **Date** | Date the event occurred | date |  |  |  |  |  |  |  |  |
| **PatientID** | **FK** to Patient table | int |  |  |  |  |  |  |  |  |
| **NurseID** | **FK** to Nurse Table | int |  |  |  |  |  |  |  |  |

Table: **Certification**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **CertID** | **PK** for Certifications | int |  | Y |  |  |  |  |  | Y |
| **Certification** | Nurse’s Certifications | nvarchar | 50 |  |  |  |  |  |  | Y |

Table: **Item**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **ItemID** | **PK** to track Item Charge | int |  | Y |  |  |  |  |  | Y |
| **ItemName** | Name of the item | nvarchar | 20 |  |  |  |  |  |  |  |
| **Charge** | Amount the item is charged | computed |  |  |  |  |  |  |  |  |

Table: **Item\_Charge**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **ChargeID** | **PK**; Unique sequential charge ID number | int |  | Y |  |  |  |  |  | Y |
| **Date** | Date of item charge | date |  |  |  |  |  |  |  |  |
| **Quantity** | Quality of items | int |  |  |  |  |  |  |  |  |
| **PatientID** | **FK** to Patient table | int |  |  |  |  |  |  |  |  |
| **ItemID** | **FK** to Item table | int |  |  |  |  |  |  |  |  |

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 | | | |
| **FirstName** | First name of the nurse | nvarchar | 20 |  |  |  |  | |  | |  | |  | | | |
| **LastName** | Last name of the nurse | nvarchar | 20 |  |  |  |  | |  | |  | |  | | | |
| **Street** | Street of the nurse | nvarchar | 30 |  |  |  |  | |  | |  | |  | | | |
| **City** | City of the nurse | nvarchar | 30 |  |  |  |  | |  | |  | |  | | | |
| **State** | State of the nurse | char | 2 |  |  |  |  | | 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 |  |  |  | Phone Rule | |  | |  | |  | | | |
| **AltPhone** | Alternate Phone number of the nurse | char | 14 |  |  |  | Phone Rule | |  | |  | |  | | | |
| **Email** | Email address of the nurse | nvarchar | 20 |  |  |  |  |  | |  | | |  | | |  | | |
| **SupervisorID** | Recursive **FK**; Synonym for NurseID; One nurse supervises another nurse | int |  |  |  |  |  |  | |  | | |  | | |  | | |
|  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | | |  | |

Table: **Nurse\_Assignment**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **NurseID** | **PK** from the Nurse table to track NurseID | int |  | Y |  |  |  |  |  | Y |
| **Date** | Date of the nurse assignment | date |  |  |  |  |  |  |  |  |
| **Hours** | Number of hours the nurse works on assignment | decimal | (4,2) |  |  |  |  |  |  |  |
| **NurseID** | **FK** to Nurse Table | int | 20 |  |  |  |  |  |  | Y |
| **WardID** | **FK** to Ward Table | int | 20 |  |  |  |  |  |  | Y |

Table: **Nurse\_Cert**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **NurseID** | **CPK; FK** track certifications, references Cert Table | int |  |  |  |  |  |  |  | Y |
| **CertID** | **CPK; FK** track Nurses, references Nurse Table | nvarchar | 50 |  |  |  |  |  |  | Y |

Table: **Nurse\_Patient**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **EventID** | **PK**; Unique sequential event ID number | int |  | Y |  |  |  |  |  | Y |
| **EventType** | The type of event happening | nvarchar | 20 |  |  |  |  |  |  |  |
| **Date** | Date of nurse treating the patient | date |  |  |  |  |  |  |  |  |
| **Time** | Time of nurse treating the patient | time |  |  |  |  |  |  |  |  |
| **PatientID** | **FK** to Patient table | int |  |  |  |  |  |  |  |  |
| **NurseID** | **FK** to Nurse Table | int |  |  |  |  |  |  |  |  |

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 |
| **FirstName** | First name of the patient | nvarchar | 20 |  |  |  |  |  |  |  |
| **LastName** | Last name of the patient | nvarchar | 20 |  |  |  |  |  |  |  |
| **Gender** | Gender of the patient | char | 2 |  |  |  |  | LIKE ‘M’ OR ‘F’ OR ‘NA’ |  |  |
| **DOB** | Date of Birth of the patient | date |  |  |  |  |  |  |  |  |
| **[Age]** | Calculated age of the patient | computed |  |  |  |  |  |  |  |  |
| **Street** | Street of the patient | nvarchar | 30 |  |  |  |  |  |  |  |
| **City** | City of the patient | nvarchar | 30 |  |  |  |  |  |  |  |
| **State** | State of the patient | char | 2 |  |  |  |  | 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 |  | Phone Rule |  |  |  |  |  |
| **Email** | Email address of the patient | nvarchar | 30 |  |  |  |  |  |  |  |
| **BedID** | **FK** to Bed table | int |  |  |  |  |  |  |  | Y |

Table: **Physician**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **DoctorID** | **PK**; Unique sequential doctor ID number | int |  | Y |  |  |  |  |  | Y |
| **FirstName** | First name of the doctor | nvarchar | 20 |  |  |  |  |  |  |  |
| **LastName** | Last name of the doctor | nvarchar | 20 |  |  |  |  |  |  |  |
| **Street** | Street of the doctor | nvarchar | 30 |  |  |  |  |  |  |  |
| **City** | City of the doctor | nvarchar | 30 |  |  |  |  |  |  |  |
| **State** | State of the doctor | char | 2 |  |  |  |  | LIKE ‘[A-Z] [A-Z]’ |  |  |
| **Zip** | Zip code of the doctor | char | 5 |  |  |  |  | LIKE ‘[0-9]  [0-9] [0-9] [0-9] [0-9]’ |  |  |
| **Phone** | Phone number of the doctor | char | 14 |  |  |  | PhoneRule |  |  |  |
| **AltPhone** | Alternate Phone number of the nurse | char | 14 |  |  |  | PhoneRule |  |  |  |
| **Email** | Email of the doctor | nvarchar | 20 |  |  |  |  |  |  |  |

Table: **Physician\_Speciality**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **DoctorID** | **CPK**; **FK** to Doctor table | int |  | Y |  |  |  |  |  | Y |
| **Specialty** | **CPK**; **FK** to specialty table | int |  |  |  |  |  |  |  | Y |

Table: **Speciality**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **SpecialtyID** | **PK** to track specialty | int |  | Y |  |  |  |  |  | Y |
| **Specialty** | Doctor’s specialty | nvarchar | 30 |  |  |  |  |  |  | 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 |
| **TreatName** | Name of the treatment | nvarchar | 20 |  |  |  |  |  |  |  |
| **Descrip** | Description of the treatment | nvarchar | 100 |  |  |  |  |  |  |  |
| **Charge** | Charge of the treatment | computed |  |  |  |  |  |  |  |  |

Table: **Treatment\_Administration**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **AdminTreatmentID** | **PK**; Unique sequential AdminTreatment ID number | int |  | 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 | 30 |  |  |  |  |  |  |  |
| **PatientID** | **FK** to Patient table | int |  |  |  |  |  |  |  | Y |
| **DoctorID** | **FK** to Doctor table | int |  |  |  |  |  |  |  | Y |
| **TreatmentID** | **FK** to Treatment table | int |  |  |  |  |  |  |  |  |

Table: **Ward**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Rule** | **Check** | **Allow Nulls** | **Index** |
| **WardID** | **PK**; Unique ward ID number | int |  | Y |  |  |  |  |  | Y |
| **Location** | Location of the ward | nvarchar | 20 |  |  |  |  |  |  |  |
| **Phone** | Phone number of the employee | char | 14 |  |  |  |  | PhoneRule |  |  |
| **ChargeNurse** | **FK** to Nurse Table; Synonym for NurseID; One nurse oversees a ward | int |  |  |  |  |  |  |  |  |