Nurse Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Nurse Id | **PK,** Unique nurse Id | Int |  | Y | Y |  |  |  | N | Y |
| First Name | Nurse First Name | Varchar | 20 |  |  |  |  |  |  |  |
| Last Name | Nurse Last Name | Varchar | 20 |  |  |  |  |  |  |  |
| Address Line 1 | Nurse Address Line 1 | Varchar | 30 |  |  |  |  |  |  |  |
| Address Line2 | Nurse Address Line2 | Varchar | 30 |  |  |  |  |  | Y |  |
| Street | Street No. | varchar | 20 |  |  |  |  |  |  |  |
| City | City Name | Varchar | 25 |  |  | ‘Tampa’ |  |  |  |  |
| State | State Name  Abbreviation | char | 2 |  |  | ‘FL’ | LIKE ‘[A-Z][A-Z]’ |  |  |  |
| Zip Code | Zip Code No. | char | 5 |  |  |  | LIKE ‘[0-9][0-9] [0-9] [0-9] [0-9]’ |  |  |  |
| Phone Number | Nurse Phone Number | Char | 10 |  |  |  |  | Phone Rule |  |  |
| Alternate Phone Number | Nurse Alternate Phone Number | char | 10 |  |  |  |  | Phone Rule | Y |  |
| Email | Nurse Email | varchar | 35 |  |  |  | LIKE ‘%@%’ |  |  |  |
| Supervisor Id | Recursive **FK;** Synonym for nurse ID. One nurse supervises another nurse. | int |  |  |  |  |  |  | Y |  |

Nurse Certificates:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Nurse Id | **CPK; FK** to nurse table.Nurse Identification number | Int |  |  |  |  |  |  |  | Y |
| Certificates | **CPK;** Accomplished certificate name of the nurse | varchar | 50 |  |  |  |  |  |  | Y |

Assignment table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Ward Id | **CPK; FK** to ward table.Ward Identification number. | Int |  |  |  |  |  |  |  | Y |
| Nurse Id | **CPK; FK** to nurse table. Nurse Identification number. | int |  |  |  |  |  |  |  | Y |
| Date | **CPK** Date of assignment | Date |  |  |  |  |  |  |  | Y |
| Hours | Hours assigned in a ward | Decimal | (4,2) |  |  |  |  |  |  |  |

Ward Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Ward ID | **PK;** Unique, Not Null.  Ward Identification number | Int |  | Y | Y |  |  |  | N | Y |
| Name | Ward Name | Varchar | 30 |  | Y |  |  |  | N |  |
| Building number | Ward Building Number | char | 2 |  |  |  | LIKE ‘[0-9][0-9]’ |  |  |  |
| Floor | Ward Floor | char | 2 |  |  |  | LIKE ‘[0-9][0-9]’ |  |  |  |
| Phone number | Ward Phone number | Char | 10 |  |  | Phone Rule |  |  |  |  |
| In charge Nurse Id | **FK** to nurse table;Synonym of Nurse Id. Id of the in charge nurse | Int |  |  |  |  |  |  |  | Y |

Bed Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Bed ID | **PK;** Unique, Not Null. Bed Identification number | int |  | Y | Y |  |  |  | N | Y |
| Size | Bed size | Varchar | 2 |  |  | ‘L’ | Size in (‘S’ or ‘L’ or ‘XL’) |  |  |  |
| Type | Type of bed | char | 1 |  |  | ‘M’ | Type in (‘E’ or ‘M’) |  |  |  |
| Availability | Bed availability | char | 1 |  |  | ‘O’ | Availability in (‘O’ or ‘A’) |  |  |  |
| Ward Id | **FK** to ward table**;** Ward Identification number | int |  |  |  |  |  |  |  | Y |

Patient Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Patient ID | **PK;** Unique Not Null. Identification number of the patient | Int |  | Y | Y |  |  |  | N | Y |
| First Name | Patient First Name | Varchar | 20 |  |  |  |  |  |  |  |
| Last Name | Patient Last Name | Varchar | 20 |  |  |  |  |  |  |  |
| Gender | Patient Gender | Char | 1 |  |  |  |  |  |  |  |
| Date Of Birth | Patient DOB | Date |  |  |  |  |  |  |  | Y |
| Address line 1 | Address Line 1 of the patient | Varchar | 30 |  |  |  |  |  |  |  |
| Address line 2 | Address Line 2 of the patient | Varchar | 30 |  |  |  |  |  | Y |  |
| Street | Street of the patient | Varchar | 10 |  |  |  |  |  |  |  |
| City | City of the patient | Varchar | 10 |  |  | ‘Tampa’ |  |  |  |  |
| State | State of the patient | Char | 2 |  |  | ‘FL’ | LIKE ‘[A-Z][A-Z]’ |  |  |  |
| Zip code | Zip code of the patient | Char | 5 |  |  |  | LIKE ‘[0-9][0-9][0-9][0-9][0-9]’ |  |  |  |
| Phone number | Phone number of the patient | Char | 10 |  |  |  |  | Phone rule |  |  |
| Alternate phone number | Alternate Phone number of the patient | Char | 10 |  |  |  |  | Phone rule | Y |  |
| Email | Email of the patient | varchar | 35 |  |  |  | LIKE ‘%@%’ |  |  |  |
| Assigned Bed Id | **FK** to Bed table**;** Synonym of Bed Id. Bed Identification number. |  |  |  |  |  |  |  |  |  |

Patient care table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Care Id | **PK;** Unique**,** not nullIdentification number for care. |  |  | Y | Y |  |  |  | N | Y |
| Date | Date of the event | Date |  |  |  |  |  |  |  | Y |
| Event | Event information | Varchar |  |  |  |  | Event in (‘wellness check’ or ‘medication’ or ‘food service’ or ‘assistance’ or ‘treatment admin’ or ‘other’) |  |  |  |
| Time | Time of the event | time |  |  |  |  |  |  |  |  |
| Patient Id | **FK** to patient table. Patient identification number | Int |  |  |  |  |  |  |  | Y |
| Nurse ID | **FK** to nurse table. Nurse identification number. | Int |  |  |  |  |  |  |  | Y |

Item Usage Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Item ID | **CPK; FK** to Item table**;** Item identification number. | int |  |  |  |  |  |  |  | Y |
| Patient ID | **CPK; FK** to Patient table. Patient identification number. | Int |  |  |  |  |  |  |  | Y |
| Date | **CPK;** Date of the item usage. | Date |  |  |  |  |  |  |  | Y |
| Quantity | Quantity of the item used. | int |  |  |  |  |  |  |  |  |

Item table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Item ID | **PK;** Unique, Not Null. Item identification number. | Int |  | Y | Y |  |  |  | N | Y |
| Name | Item name | Varchar | 20 |  |  |  |  |  |  |  |
| Charge | Charge of the item. | Decimal | (10,2) |  |  |  |  |  |  |  |

Administration Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Administration Id | **PK;** Unique, not null. Identification for the administration done. |  |  | Y | Y |  |  |  | N | Y |
| Date | Date of the administration. | Date |  |  |  |  |  |  |  | Y |
| Time | Time of the administration. | Time |  |  |  |  |  |  |  |  |
| Results | Results of the administration of the patient. | Varchar | 100 |  |  |  |  |  |  |  |
| Treatment Id | **FK** to Treatment Table. Treatment Identification number. | int |  |  |  |  |  |  |  | Y |
| Patient ID | **FK** to Patient table. Patient identification number. | Int |  |  |  |  |  |  |  | Y |
| Doctor ID | **FK** to Doctor table. Doctor identification number. | int |  |  |  |  |  |  | Y | Y |

Treatment Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Treatment ID | **PK;** Unique, Not Null. Treatment Identification number. | int |  | Y | Y |  |  |  | N | Y |
| Name | Patient name who received the treatment | Varchar | 30 |  |  |  |  |  |  |  |
| Description | Description of the treatment performed. | Varchar | 70 |  |  |  |  |  |  |  |
| Charge | Amount charged for the treatment. | Decimal | (10,2) |  |  |  |  |  |  |  |

Admit Discharge Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Patient ID | **CPK; FK** to Patient table. Patient identification number. | Int |  |  |  |  |  |  |  | Y |
| Admit Doctor Id | **CPK; FK** to Patient table. Synonym of Doctor Id. Doctor identification number. | Int |  |  |  |  |  |  | Y | Y |
| Discharge Doctor Id | **CPK; FK** to Patient table. Synonym of Doctor Id. Doctor identification number. | int |  |  |  |  |  |  | Y | Y |
| Date Of Admission | **CPK;** Date when the patient was admitted. | date |  |  |  |  |  |  |  | Y |
| Date of Discharge | Date when the patient was discharged. | date |  |  |  |  |  |  |  | Y |

Doctor Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Doctor ID | **PK;** Unique Not Null. Doctor Identification number | int |  | Y | Y |  |  |  | N | Y |
| First Name | First name of the doctor | Varchar | 20 |  |  |  |  |  |  |  |
| Last Name | Last name of the doctor | Varchar | 20 |  |  |  |  |  |  |  |
| Address line 1 | Address Line 1 of the doctor | Varchar | 30 |  |  |  |  |  |  |  |
| Address line 2 | Address Line 2 of the doctor | Varchar | 30 |  |  |  |  |  | Y |  |
| Street | Street of the doctor | Varchar | 20 |  |  |  |  |  |  |  |
| City | City of the doctor | Varchar | 25 |  |  | ‘Tampa’ |  |  |  |  |
| State | State of the doctor | Char | 2 |  |  | ‘FL’ | LIKE ‘[A-Z][A-Z]’ |  |  |  |
| Zip code | Zip code of the doctor | Char | 5 |  |  |  | LIKE ‘[0-9][0-9] [0-9] [0-9] [0-9]’ |  |  |  |
| Phone number | Doctor’s Phone number | Char | 10 |  |  |  |  | Phone Rule |  |  |
| Alternate Phone number | Doctor’s Alternative phone number | Char | 10 |  |  |  |  | Phone Rule | Y |  |
| Email | Doctor’s email | varchar | 35 |  |  |  | LIKE ‘%@%’ |  |  |  |

Doctor Specialties:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | Description | Data Type | Size | Identity | Unique | Default | Check | Rule | Allow Nulls | Index |
| Doctor Id | **CPK; FK** to doctor table. Doctor Identification ID | int |  |  |  |  |  |  |  | Y |
| Specialty | **CPK;** Doctor Specialty | Varchar | 50 |  |  |  |  |  |  | Y |