

Table: **Nurse**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
NurseID	PK ; Unique sequential employee ID number	int		Y						Y
FirstName	First name of the nurse	nvarchar	15							
LastName	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							
PhoneNumber	Phone number of the nurse	nvarchar	20						Y	
Type	Type of nurse	char	1					[Type] = ('C') OR [Type] = ('R')		

Table: **Nurse Certification**

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 the Nurse table; NurseID of the nurse with the certification	int								Y

Table: **Ward**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
WardID	PK ; Unique sequential Ward Number	int		Y	Y					Y
Location	Location of the ward	nvarchar	50							
PhoneNumber	Phone number linked to the ward	nvarchar	20						Y	
ChargeNurse	Nurse in Charge of the ward	nvarchar	20							

Table: **Nurse** Assignment

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 ward	Decimal	(4,2)							
NurseID	FK to Nurse table	int								Y

Table: **Bed**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
BedID	PK ; Unique sequential number for bed numbers	int		Y	Y					Y
Size	Size of the bed	nvarchar	15							
Type	Type of bed in ward	nvarchar	20							
WardID	FK to Ward 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					Y
FirstName	First name of the patient	nvarchar	15							
LastName	Last name of the patient	nvarchar	20							
Gender	Sexual orientation of the patient	char	1							
DOB	Patient's date of birth	date								
Age	Age of the patient	char	3							
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							
PhoneNumber	Phone number of the patient	nvarchar	20						Y	
Bed ID	FK to Bed table	int								

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	Size of the bed	nvarchar	30							
Charge	The amount charged for item	money								

Table: **Item Charge**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
ChargeID	PK ; Unique sequential number for bed numbers	int		Y	Y					Y
Date	Size of the bed	nvarchar	15							Y
Quantity	Type of bed in ward	nvarchar	20							
ItemID	FK to Item Table	int								
PatientID	FK to Patient Table	int								Y

Table: **Admit Discharge**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
AdmitID	PK ; Unique sequential number ID for admission date	int		Y	Y					Y
AdmitDate	Admission date	date								Y
DischargeDate	Discharge date	date								
PatientNo	FK to Patient Table	int								
DischargeDoc	Fk to Doctor table	int								
AdmitDoc	FK to Doctor 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					Y
FirstName	First name of the doctor	nvarchar	15							
LastName	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							
PhoneNumber	Phone number of the doctor	nvarchar	20						Y	
Email	Email address of the doctor	nvarchar	30							

Table: **Treatment**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
Treatment ID	PK ; Unique sequential number ID for admission date	int		Y	Y					Y
Treatment Name	Name of the treatment	nvarchar	20							Y
Description	Description of the treatment	nvarchar	20							
Charge	Money									

Table: **Physician Specialty**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
DoctorSpecialtyID	PK ; Unique sequential speciality of the doctor ID	int		Y	Y					Y

Table: **Treatment Administration**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
AdminTreatmentID	PK ; Unique sequential number for AdminTreatmentID	int		Y	Y					Y
Date	Date of administered treatment to patient	date								Y
Time	Time administered treatment to patient	time								
Results	FK to Item Table	nvarchar	100							
TreatmentID	FK to Patient Table	int								Y
DoctorID	FK to Doctor table	int								Y
PatientID	FK to Patient Table	int								Y

Table: **Nurse Patient**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
EventID	PK ; Unique sequential number for Event ID	int		Y	Y					Y
Event Type	Type of event for patient and nurse	nvarchar	50							Y
Date	Date of the event	Date								
Time	Time of the event	Time								
Patient ID	Fk to Patient table	int								
Nurse ID	FK to Nurse table	int								Y