

(Microsoft SQL Server Notation)

Table: **AdmitDischarge**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
AdmitID	PK ; Unique sequential admittance ID number	int		Y						Y
AdmitDate	Admittance date of the patient	date								
DischargeDate	Discharge date of the patient	date							Y	
PatientNo	FK to Patient Table	int								
AdmitDoc	FK to Physician Table, Synonym for DoctorID	int								
DischargeDoc	FK to Physician Table, Synonym for DoctorID	int							Y	

Table: **Bed**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
BedNo	PK ; Unique sequential bed number	int		Y						Y
Size	Size of the bed	char	2			L		[Size] = ('S') OR [Size] = ('L') OR [Size] = ('XL')		
Type	Type of bed	char	1			M		[Type] = ('E') OR [Type] = ('M')		
WardID	FK to Ward Table	int								

Table: **Item**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
ItemNo	PK ; Unique sequential item number	int		Y						Y
ItemName	Name of the item	nvarchar	50							
Charge	Price of the item	money								

Table: **ItemCharge**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
ChargeNo	PK ; Unique sequential charge number	int		Y						Y
Date	Date the item is used by the patient	date								
Quantity	Quantity of the item	int								
PatientNo	FK to Patient Table	int								
ItemNo	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	15							
LastName	Last name of the nurse	nvarchar	20							
Phone	Phone number of the nurse	nvarchar	13				Phone Rule*			
Street	Street of the nurse	nvarchar	20							
City	City of the nurse	nvarchar	15							
State	State of the nurse	char	2			FL**		[State] LIKE '[A-Z] [A-Z]'		
Zip	Zip code of the nurse	nvarchar	5					[Zip] LIKE '[0-9][0-9] [0-9][0-9][0-9][0-9]'		
email	Email address of the nurse	nvarchar	50							
SupervisorNo	FK ; Recursive FK to the Nurse Table, Synonym for NurseID	int							Y	

Table: **NurseAssignment**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
NurseID	CPK ; FK to the Nurse Table; NurseID of the Nurse working at a ward.	int								
WardID	CPK ; Unique sequential ward ID number	int								
Date	Date a nurse worked in a ward	date								
Hours	Hours a nurse worked in a ward	decimal	(4,2)							

Table: **NurseCert**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
NurseID	CPK ; FK to the Nurse Table; NurseID of the Nurse with the certification	int								
Cert	CPK ; Nurse's certification	nvarchar	20							

Table: **NursePatient**

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	Type of event	char	3					[EventType] LIKE ('WC') OR LIKE ('MED') OR LIKE ('FS') OR LIKE ('AS') OR LIKE ('TA') OR LIKE ('O')		
Date	Date of the event	date								
Time	Time of the event	time	7							
PatientNo	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
PatientNo	PK ; Unique sequential patient number	int		Y						Y
FirstName	First name of the patient	nvarchar	15							
LastName	Last name of the patient	nvarchar	20							
Phone	Phone number of the patient	nvarchar	20							
Gender	Gender of the patient	char	1					[Gender] = ('M') OR [Gender] = ('F')		
DOB	Date of birth of the patient	date								
Age	Age of the patient, a derived value from the DOB column								Y	
Street	Street of the patient	nvarchar	20							
City	City of the patient	nvarchar	15			Tampa				
State	State of the patient	char	2					[State] LIKE 'A-Z' [A-Z]		
Zip	Zip code of the patient	nvarchar	5					[Zip] LIKE '[0-9][0-9] [0-9][0-9][0-9][0-9]'		
BedNo	FK to Bed Table	int								

Table: **Physician**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
DoctorID	PK ; Unique sequential physician ID number	int		Y						Y
FirstName	First name of the physician	nvarchar	15							
LastName	Last name of the physician	nvarchar	20							
Phone	Phone number of the physician	nvarchar	20							
Street	Street of the physician	nvarchar	20							
City	City of the physician	nvarchar	15							
State	State of the physician	char	2					[State] LIKE '[A-Z] [A-Z]'		
Zip	Zip code of the physician	nvarchar	5					[State] LIKE '[0-9][0-9] [0-9][0-9][0-9][0-9]'		
Email	Email address of the physician	nvarchar	50							

Table: **PhysicianSpecialty**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
DoctorID	CPK ; FK to Doctor Table	int								
Specialty	CPK ; Specialty of the physician	nvarchar	20							

Table: **Treatment**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
TreatmentNo	PK ; Unique sequential treatment number	int		Y						Y
TreatName	Name of the treatment	nvarchar	20							
Descrip	Description of the treatment	nvarchar	20							
Charge	Price of the treatment	money								

Table: **TreatmentAdministration**

Column Name	Description	Data Type	Size	Identity	Unique	Default	Rule	Check	Allow Nulls	Index
PatientNo	CPK; FK to the Patient Table; PatientNo of the Patient getting a treatment administered.	int								
DoctorID	CPK; FK to the Physician Table; DoctorID of the Doctor administering a treatment to a patient	int								
TreatmentNo	CPK; FK to the Treatment Table; TreatmentNo of the treatment being administered to a patient.	int								
DateTime	CPK ; The date and time a physician administered a treatment to a patient	datetime								
Results	Results of an administered treatment	nvarchar	50							

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
Location	Location of the ward	nvarchar	20							
Phone	Phone number of the charge nurse	nvarchar	20							
ChargeNurse	FK ; to Nurse Table, synonym of NurseID	int								

Rules:

Phone Rule* - '[0-9][0-9][0-9][-][0-9][0-9][0-9][-][0-9][0-9][0-9][0-9]'

Database Level Default for Nurse Table:

State – FL**