Tables	Attributes	Primary Key	ForeignKey and Reference table	Domain Constraints	Normal Form	FD Variables to Attributes	FDS
Medical_Facility - Master table to store Medical facility details	Facility_id	TRUE		unsigned, Integer (INT), NOT NULL		A	A->BCDE
	Classification			1,2,3 - values only, NOT NULL		B	
	Name			String (VARCHAR), NOT NULL		C	
	Num of Service dept			unsigned Integer (INT), NOT NULL		D	
	Capacity			unsigned Integer (INT), NOT NULL	BCNF	E	
Address - Weak entity of medical_facility to store address, Full participation	Add_id	TRUE		unsigned integer (INT)		A	AB->CDEFG
	Facility_id	TRUE	True,Medical_Facility	unsigned integer (INT)		B	
	Street_name			String (VARCHAR)		C	
	Street_number			unsigned Integer (INT)		D	
	City			String (VARCHAR)		E	
	State			String (VARCHAR)		F	
	Country			String (VARCHAR)	BCNF	G	
Certifications - List of certifications	Certification_Id	TRUE		String (VARCHAR)		A	A->B
	Name			String (VARCHAR), NOT NULL	BCNF	B	
Medical_facility_certifications - Medical Facility has certifications	Certification_id	TRUE	True,Certifications	String (VARCHAR)		A	AB->CD
	Facility_id	TRUE	True,Medical_Facility	unsigned Integer (INT)		B	
	Date_of_Certification			Date, NOT NULL		C	
	Expiry_date			Date, NOT NULL	BCNF	D	
Staff - Employee details	Emp_id	TRUE		unsigned Integer (INT), NOT NULL		A	A->BCD
	Name			String (VARCHAR), NOT NULL		B	
	Designation			Medical,Non-medical - values only, NOT NULL		C	
	Hire_date			Date, NOT NULL		D	
Service_Departments - Department within a facility	Dept_id	TRUE		unsigned Integer (INT), NOT NULL		A	A->BC
	Name			String (VARCHAR), NOT NULL		B	
	Director_id		True,Staff	unsigned Integer (INT), NOT NULL	BCNF	C	
Staff_Service_departments - Relation- Staff working in the service department	Emp_id	TRUE	True, Staff	Integer (INT), NOT NULL		A	AB->C
	Dept_id	TRUE	True,Service_Departments	String (VARCHAR)		B	
	Is_Primary			Boolean (BIT), NOT NULL	BCNF	C	
Medical_Facility_Service_Departments Service Departments in medical facility	Facility_id	TRUE	True, Medical_Facility	unsigned Integer (INT), NOT NULL		A	AB->AB
	Dept_id	TRUE	True,Service_Departments	String (VARCHAR)	BCNF	B	
Services -Service provided by Service Department	Service_id	TRUE		String (VARCHAR), NOT NULL		A	AB->CD
	Dept_id	TRUE	True,Service_Departments	String (VARCHAR), NOT NULL		B	
	Name			String (VARCHAR), NOT NULL		C	
	Equipments			String (VARCHAR)	BCNF	D	

Table	Column	PK	FK (Reference)	Data Type	NF	Attr	Functional Dependency
Service_departments_Services - This table will hold the services provided by each service department	Dept_id	TRUE	True,Service_Departments	String (VARCHAR), NOT NULL		A	AB->AB
	Service_id	TRUE	True,Services	String (VARCHAR), NOT NULL	BCNF	B	
Body_Parts - It will be master table for body parts	Part_Id	TRUE		String (VARCHAR), NOT NULL		A	A->B
	Name			String (VARCHAR), NOT NULL	BCNF	B	
Body_Parts_Service_Departments - Relation	Part_id	TRUE	True,Body_Parts	String (VARCHAR), NOT NULL		A	AB->AB
	Dept_id	TRUE	True,Service_Departments	String (VARCHAR), NOT NULL	BCNF	B	
Symptoms - Master table for symptoms	Sym_id	TRUE		String (VARCHAR), NOT NULL		A	A->B
	Name			String (VARCHAR), NOT NULL	BCNF	B	
Symptoms_Body_Parts - Holds the links from symptoms to body parts	Sym_id	TRUE	True,Symptoms	String (VARCHAR), NOT NULL		A	AB->AB
	Part_id	TRUE	True,Body_Parts	String (VARCHAR), NOT NULL	BCNF	B	
Severity	Svr_id	TRUE		Integer (INT), NOT NULL		A	A->B
	Value			String (VARCHAR), NOT NULL	BCNF	B	
Scale - To store symptoms measureable values, Full Participation	Sym_id	TRUE	True,Symptoms	Integer (INT), NOT NULL		A	AB->AB
	Svr_id	TRUE	True,Severity	Integer (INT), NOT NULL	BCNF	B	
Rules - For setting priority status based on body part, symptom, severity	Part_id	TRUE	True,Body_Parts	String (VARCHAR), NOT NULL		A	ABC->D
	Sym_id	TRUE	True,Symptoms	String (VARCHAR), NOT NULL		B	
	Svr_id	TRUE	True,Severity	Integer (INT), NOT NULL		C	
	Priority_Status			High, Normal, Quarantine	BCNF	D	
Patients	Patient_id	TRUE		Unsigned Integer, NOT NULL, autoincrement		A	ACDH->BEFGIJ
	First_name			String (VARCHAR), NOT NULL		B	
	Last_name	TRUE		String (VARCHAR), NOT NULL		C	
	DOB	TRUE		Date, NOT NULL		D	
	Phone_no			String (VARCHAR)		E	
	House_number			String (VARCHAR), NOT NULL		F	
	Street_name			String (VARCHAR), NOT NULL		G	
	City	TRUE		String (VARCHAR), NOT NULL		H	
	State			String (VARCHAR), NOT NULL		I	
	Country			String (VARCHAR), NOT NULL	BCNF	J	
Symptom_details - Relation	Part_id	TRUE	True,Body_Parts	String (VARCHAR), NOT NULL		A	ABC->DEF
	Sym_id	TRUE	True,Symptoms	String (VARCHAR), NOT NULL		B	
	Patient_id	TRUE	True,Patients	Unsigned Integer, NOT NULL		C	
	Is_occuring			Boolean (BIT), NOT NULL		D	
	Duration			Unsigned Integer, NOT NULL		E	
	Text			Text	BCNF	F	
	Patient_id	TRUE	True,Patients	Unsigned Integer, NOT NULL		A	A->BCDEFG

Entity	Attribute	Key	Reference	Type/Constraint	Normal Form	Label	FD
Patient_Status - Checkin details of patient are stored here, Full Participation	Start_time			DateTime		B	
	End_time			DateTime		C	
	LowBP			Unsigned Tinyint		D	
	HighBP			Unsigned Tinyint		E	
	Temperature			Decimal(3,2)		F	
	Priority_Status			High, Normal, Quarantine	BCNF	G	
Reason - reasons for referring a patient to some other facility	Reason_code	TRUE		1,2,3 values only		A	A->B
	Description			text, 1- Service unavailable at time of visit; 2 – Service not present at facility; 3 - Non payment.	BCNF	B	
Patient_Checkout - patient checkout details will be used in this, Full Participation	Patient_id	TRUE	True,Patients	Unsigned Integer, NOT NULL		A	A->BCDE
	Discharge_Status			Text, Treated Successfully, Deceased, Referred - values only		B	
	Treatment_given			Text		C	
	Experience			Text, Misdiagnosis, Patient acquired infection during hospital stay. - values only	BCNF	D	
	Referral_id		True, Referral	Unsigned Integer, NOT NULL		E	
Referral	Referral_id	TRUE		Unsigned Integer, NOT NULL		A	A->BCD
	Pateint_id		True,Patients	Unsigned Integer, NOT NULL		B	
	Emp_id		True,Staff	Unsigned Integer, NOT NULL		C	
	Facility_id		True,Medical_Facility	Unsigned Integer, NOT NULL	BCNF	D	