Introduction to DataBase Systems Project CIS 340-01 Gavin Sturm

- 1) Identify Entity Types (with description)
- 2) Identify Relationships with Brief Description

Ward Table:

Ward Has Number, Name, Extension

Attributes: WardNumber, WardName, WardExtension

Ward Number: Different Hospital Wards (17 total)

Ward Name: Ward Names

Ward Extension Number: Ward Telephone Extension

Hospitals can view ward numbers and names. Each ward has a different name and number.

Staff Table:

Staff Members Have Staff Number, Staff Name, Address, Telephone, DOB, Sex, Insurance, Position, Salary, Salary Scale

Attributes: StaffNumber, StaffName, StaffAddress, StaffPhone, DateOfBirth, StaffIncurance, StaffPosition, StaffSalary, StaffSalaryScale, Qualifications, DateOfQualifications, NameOfInstitution, Experience, EmploymentContract, Hours, ContractType, SalaryType

Staff Number: Identification Number for Staff Members

Staff Name: First and Last Staff Names

Address: Full House Address

Telephone Number: Staff Telephone Number

Date of Birth: Staff Date of Birth Sex: The Gender of the Staff Worker

National Insurance Number: Staff Insurance

Position: Position Working

Current Salary: Staff Worker Salary

Salary Scale: Range of Wages for Position

Qualifications: Qualifications

Date of Qualification: Qualification Date Name of Institution: Institution Name

Experience: Name of Organization with Position Start to Finish Date

Employment Contract: Type of Contract

Hours: Hours Worked Per Week

Temporary or Permanent: Contract Type

Type of Salary: Weekly / Monthly

Staff members have files on their past history.

Stuff members are assigned positions and wards based on experience.

Charge Nurses help run hospitals.

Patient Table:

Patient Has Number, Name, Address, Phone, DOB, Sex, Marital Status, Date Registered, Next of Kin

Attributes: PatientNumber, PatientName, PatientAddress, PatientPhone, PatientDateOfBirth, PatientSex, PatientMaritalStatus, PatientDateRegistered, PatientNextOfKin

Patient Number: Unique Identification Number

Patient Name: First and Last Name

Patient Address: Address

Patient Phone Number: Phone Number

Patient DOB: Date of Birth

Sex: Patient Gender

Marital Status: Patient Marital Status

Date Registered: Date Registered with Hospital

Next of Kin: Patients Next of Kin

Patient file contains information to know about the patient. Each file contains details about their lives and next of kin. A patient can check into a hospital and check out. A patient can receive medication and supplies.

Next of Kin:

Next of Kin Has Full Name, Relationship, Address, Phone Number Attributes: NextOfKinFullName, NextOfKinRelationship, NextOfKinAddress, NextOfKinPhoneNumber

Full Name: Next of Kin's Full Name Relationship: Relation to Patient

Address: Kin Address

Phone Number: Kin Phone Number

Next of kin is for the patient's purpose.

They are inserted into the database if something were to happen to the patient.

Local Doctors:

Local Doctors Have Name, Clinic Number, Clinic Address, Clinic Phone, Clinic Number Attributes: LocalDoctorName, LocalDoctorPhoneNumber, LocalDoctorAddress, LocalDoctorPhone, LocalDoctorId

Full Name: Doctor's Full Name

Clinic Number: Doctor's Clinic Number

Clinic Address: Address of the Clinic of the Local Doctor

Clinic Phone Number: Phone Number of Clinic

Clinic Number: Unique Identifier

Doctors are assigned patients.

Local doctors have clinic numbers patients can call. Their clinics have addresses that patients can travel to.

Patient Appointments:

Patient Schedules Appointment

Attributes: PatientAppointmentNumber, ConsultantName, ConsultantNumber,

PatientAppointmentDate, PatientTimeOfAppointment, Result

Appointment Number: Unique Identifier for Appointments

Consultant Name: Name of Consultant Carrying out Appointment

Consultant Number: Unique Identifier for Consultant

Date of Appointment: Date Time of Appointment: Time

Examination Room: Room Number or Name Result: Either Outpatient Clinic / Waiting List

Patients are assigned appointments.

Doctors and nurses are assigned to these patients.

Patients may be assigned different medications or wards.

Outpatients:

Patient Has File

Attributes: PatientNumber, PatientName, PatientAddress, PatientPhone,

PatientDateOfBirth, PatientSex, DateTimeOfOutpatient

Patient Number: Number
Patient Name: First and Last
Patient Address: Full Address

Patient Phone Number: Phone Number Date of Birth: Patient Date of Birth Sex: Sexual Orientation of Patient

Date and Time: Date and Time of Outpatient Clinic

Outpatients are admitted to leave the clinic.

Inpatients:

Inpatients Have File

Attributes: PatientNumber, PatientName, PatientAddress, PatientPhone, PatientDateOfBirth, PatientSex, PatientMaritalStatus, PatientNextOfKin, PatientWaitingListDate, PatientWardRequired, Duration, DateInWard, DateExpected, DateLeft, BedNumber

Patient Number: Patient Number Name: Patient First and Last Name

Address: Patient Address

Phone Number: Patient Phone Number

Date of Birth: DOB Sex: Sex of Patient

Marital Status: Marital Status of Patient Patients Next of Kin: Details of NOK

Waiting List Date: Date Placed on Waiting List Ward Required: Ward Required for Patient

Duration: Duration of stay (days)
Date in Ward: Date Placed in Ward
Date Leave: Date Expected to Leave
Actual Date: Date Actually Left
Bed: Unique Bed Number

Inpatients are admitted to a clinic.

They will be assigned a ward to attend.

They will be assigned a date to come and an expected date to leave.

Each Inpatient will have a unique bed number.

Patient Medication:

Patients Assigned Medicine

Attributes: PatientName, PatientNumber, DrugNumber, UnitsPerDay,

MethodOfAdministration, StartDate, FinishDate, SuppliesGiven

Patient Name: Name

Patient Number: Patient Number

Drug Number: Drug Number and Name

Units Per Day: Units Per Day

Method of Administration: Way to Take Medicine

Start Date: Start Date Finish Date: Finish Date

Supplies Given: Supplies Given

Medication is monitored and administered to patients or nurses. Doctors / Nursers will assign a dosage a start date and end date.

Surgical and NonSurgical Supplies:

Surgical and Nonsurgical Supplies are Labeled

Attributes: ItemNumber, ItemName, ItemDescription, ItemQuantity, ReorderLevel,

CostPerUnit. ItemNumber

Item Number: Item Number Item Nme: Item Name

Item Description: Description of Item Quantity in Stock: Quantity in stock Reorder Level: Reorder Level Cost Per Unit: Cost Per Unit

Item Number: Item Number

Supplies will be handed out to patients and or nurses.

Pharmaceutical Supplies:

Pharmaceutical Supplies are Labeled

Attributes: DrugNumber, DrugName, DrugDescription, DrugDosage, MethodOfAdministration, QuantityInStock, ReorderLevel, CostPerUnit, DrugNumber

Drug Number: Drug Number Drug Name: Drug Name Description: Description of Drug

Dosage: Dosage

Method of Administration: MOA Quantity in Stock: Quantity in Stock

Reorder Level: Reorder Level Cost Per Unit: Cost Per Unit Drug Number: Drug Number

Supplies will be assigned and monitored.

Nurses adn doctors may administer medication.

They will provide a method of administration.

They will provide the patients a price.

Ward Requisitions:

Wards have files

Attributes: RequisitionNumber, StaffMember, NumberOfWard, WardName, DrugName, DrugDescription, Dosage, MethodOfAdministration, CostPerUnit, QuantityRequired, DateOrdered, DateReceived

Unique Requisition Number: Number

Name of Staff Member: Name of Staff Member Placing Requisition

Number of Ward: Ward Number Ward Name: Name of Ward

Item / Drug Name: Drug Name or Item Name

Description: Description of Item

Dosage: Dosage

Method of Administration: MOA Cost Per Unit: Cost Per Unit

Quantity Required: Required Quantity

Date Ordered: Date Ordered

Date of Order Receive: Date Signed by Nurse When Order is Received

Ward requisitions will be provided by nurses or hospital staff.

Each ward has a unique number. Drugs may be administered. Quantity will be required.

Suppliers:

Clinics Contact Suppliers Attributes: SupplierName, SupplierNumber, SupplierAddress, SupplierPhone, SupplierFax, SupplierNumber

Supplier Name: Name of Supplier

Number: Supplier Number Address: Address of Supplier

Telephone: Phone Number of Supplier Fax Number: Fax Numbers of Supplier

Unique Supplier Number: Unique Supplier Number

Suppliers are contacted through the hospitals to provide supplies and medication.

Suppliers will provide cost, dosages, methods of administration etc. to the doctors and nurses to provide care to the patient correctly

Our other member sent me the link to the lucidchart, here's the link if you want to take a look over it: https://lucid.app/lucidchart/ec085de4-f11f-4e88-98cd-872645a85fb4/edit?invitationId=inv_26ff0754-9128-4791-9db5-cb1fd0abbf03