IT 340 Assignment2 E-R Model

Gus Sorbo
Dat Tran
Github:
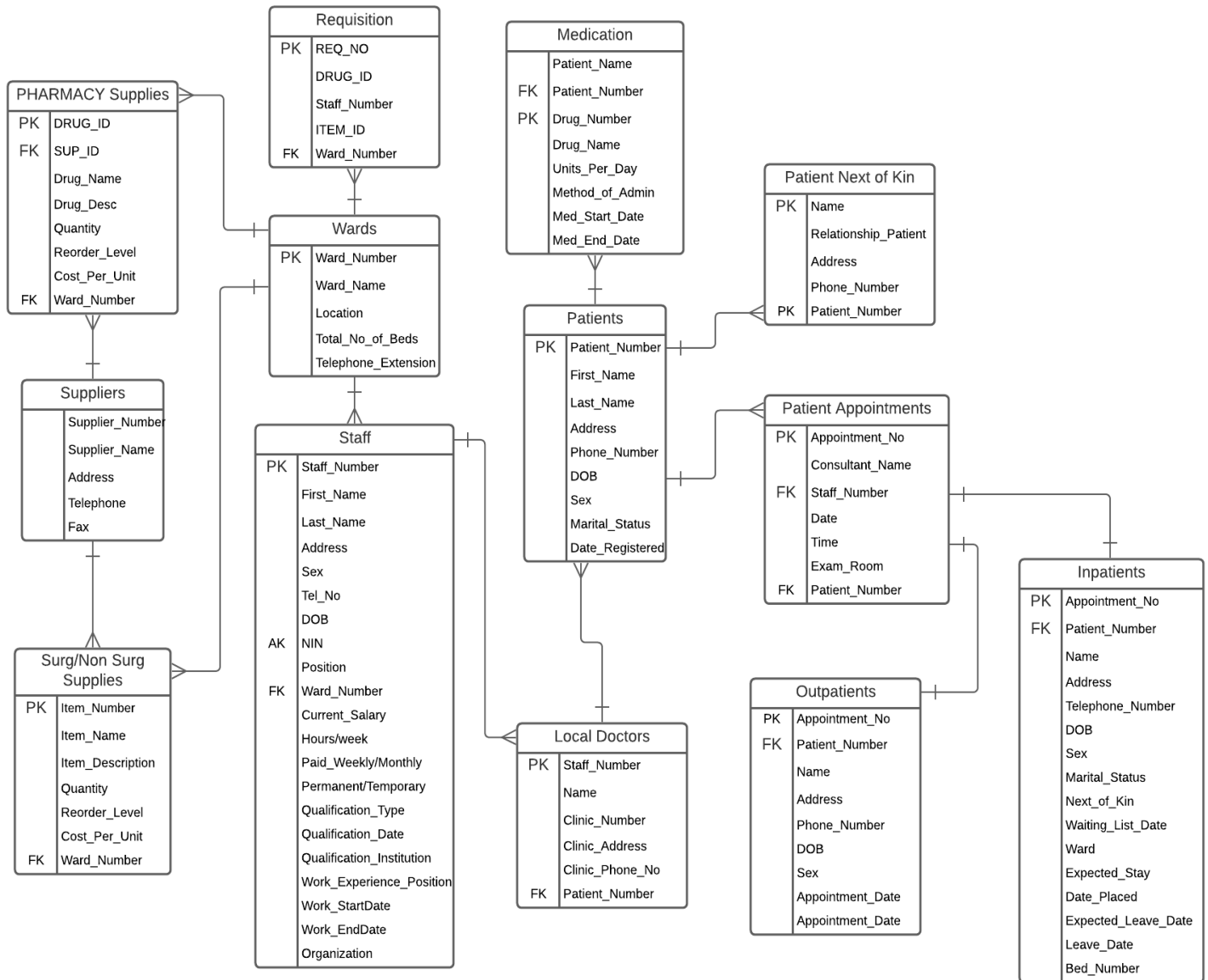
Requisition

PK	REQ_NO
	DRUG_ID
	Staff_Number
	ITEM_ID
FK	Ward_Number

Medication

	Patient_Name
FK	Patient_Number
PK	Drug_Number
	Drug_Name
	Units_Per_Day
	Method_of_Admin
	Med_Start_Date
	Med_End_Date

PHARMACY Supplies

PK	DRUG_ID
FK	SUP_ID
	Drug_Name
	Drug_Desc
	Quantity
	Reorder_Level
	Cost_Per_Unit
FK	Ward_Number

Patient Next of Kin

PK	Name
	Relationship_Patient
	Address
	Phone_Number
PK	Patient_Number

Wards

PK	Ward_Number
	Ward_Name
	Location
	Total_No_of_Beds
	Telephone_Extension

Patients

PK	Patient_Number
	First_Name
	Last_Name
	Address
	Phone_Number
	DOB
	Sex
	Marital_Status
	Date_Registered

Suppliers

	Supplier_Number
	Supplier_Name
	Address
	Telephone
	Fax

Patient Appointments

PK	Appointment_No
	Consultant_Name
FK	Staff_Number
	Date
	Time
	Exam_Room
FK	Patient_Number

Staff

PK	Staff_Number
	First_Name
	Last_Name
	Address
	Sex
	Tel_No
	DOB
AK	NIN
	Position
FK	Ward_Number
	Current_Salary
	Hours/week
	Paid_Weekly/Monthly
	Permanent/Temporary
	Qualification_Type
	Qualification_Date
	Qualification_Institution
	Work_Experience_Position
	Work_StartDate
	Work_EndDate
	Organization

Inpatients

PK	Appointment_No
FK	Patient_Number
	Name
	Address
	Telephone_Number
	DOB
	Sex
	Marital_Status
	Next_of_Kin
	Waiting_List_Date
	Ward
	Expected_Stay
	Date_Placed
	Expected_Leave_Date
	Leave_Date
	Bed_Number

Outpatients

PK	Appointment_No
FK	Patient_Number
	Name
	Address
	Phone_Number
	DOB
	Sex
	Appointment_Date
	Appointment_Date

Surg/Non Surg Supplies

PK	Item_Number
	Item_Name
	Item_Description
	Quantity
	Reorder_Level
	Cost_Per_Unit
FK	Ward_Number

Local Doctors

PK	Staff_Number
	Name
	Clinic_Number
	Clinic_Address
	Clinic_Phone_No
FK	Patient_Number

Table	Column	Null/Not Null	Key
Wards	Ward_Number	Not Null	PK
Wards	Ward_Name	Not Null	No
Wards	Location	Not Null	No
Wards	Total_No_of_Beds	Not Null	No
Wards	Telephone_Extension	Null	No

Table	Column	Null/Not Null	Key
STAFF	Staff_Number	Not Null	PK
STAFF	First_Name	Not Null	No
STAFF	Last_Name	Not Null	No
STAFF	Address	Not Null	No
STAFF	Sex	Not Null	No
STAFF	Tel_No	Null	No
STAFF	DOB	Not Null	No
STAFF	NIN	Not Null	AK
STAFF	Position	Not Null	No
STAFF	Ward_Number	Not Null	FK
STAFF	Current_Salary	Not Null	No
STAFF	Hours/week	Not Null	No
STAFF	Paid_Weekly/Monthly	Not Null	No
STAFF	Permanent/Temporary	Not Null	No
STAFF	Qualification_Type	Not Null	No
STAFF	Qualification_Date	Not Null	No
STAFF	Qualification_Institution	Not Null	No
STAFF	Work_Experience_Position	Not Null	No
STAFF	Work_StartDate	Not Null	No
STAFF	Work_EndDate	Not Null	No
STAFF	Organization	Null	No

Table	Column	Null/Not Null	Key
Patients	Patient_Number	Not Null	PK
Patients	First_Name	Not Null	No
Patients	Last_Name	Not Null	No
Patients	Address	Not Null	No
Patients	Phone_Number	Not Null	No
Patients	DOB	Not Null	No
Patients	Sex	Not Null	No
Patients	Marital_Status	Null	No
Patients	Date_Registered	Not Null	No

Table	Column	Null/Not Null	Key
Patient's Next of Kin	Name	Not Null	Composite PK
Patient's Next of Kin	Relationship_Patient	Not Null	No
Patient's Next of Kin	Address	Null	No
Patient's Next of Kin	Phone_Number	Null	No
Patient's Next of Kin	Patient_Number	Not Null	Composite PK

Table	Column	Null/Not Null	Key
Local Doctors	Staff_Number	Not Null	PK
Local Doctors	Name	Not Null	No
Local Doctors	Clinic_Number	Not Null	No
Local Doctors	Clinic_Address	Null	No
Local Doctors	Clinic_Phone_No	Null	No
Local Doctors	Patient_Number	Not Null	FK

Table	Column	Null/Not Null	Key
Patient Appointments	Appointment_No	Not Null	PK
Patient Appointments	Consultant_Name	Not Null	No
Patient Appointments	Consultant_Staff_No	Not Null	FK
Patient Appointments	Date	Not Null	No
Patient Appointments	Time	Not Null	No
Patient Appointments	Exam_Room	Not Null	No
Patient Appointments	Patient_Number	Not Null	FK

Table	Column	Null/Not Null	Key
Outpatients	Patient_Number	Not Null	PK
Outpatients	Name	Not Null	No
Outpatients	Address	Not Null	No
Outpatients	Phone_Number	Null	No
Outpatients	DOB	Null	No
Outpatients	Sex	Null	No
Outpatients	Appointment_Date	Not Null	No
Outpatients	Appointment_Time	Not Null	No

Table	Column	Null/Not Null	Key
Inpatients	Patient_Number	Not Null	PK
Inpatients	Name	Not Null	No
Inpatients	Address	Not Null	No

Inpatients	Telephone_Number	Null	No
Inpatients	DOB	Not Null	No
Inpatients	Sex	Not Null	No
Inpatients	Marital_Status	Null	No
Inpatients	Next_of_Kin	Not Null	No
Inpatients	Waiting_List_Date	Null	No
Inpatients	Ward	Null	No
Inpatients	Expected_Stay	Not Null	No
Inpatients	Date_Placed	Not Null	No
Inpatients	Expected_Leave_Date	Not Null	No
Inpatients	Leave_Date	Not Null	No
Inpatients	Bed_Number	Not Null	No

Table	Column	Null/Not Null	Key
Patient Medication	Patient_Name	Not Null	No
Patient Medication	Patient_Number	Not Null	FK
Patient Medication	Drug_Number	Not Null	PK
Patient Medication	Drug_Name	Not Null	No
Patient Medication	Units_Per_Day	Not Null	No
Patient Medication	Method_of_Admin	Not Null	No
Patient Medication	Med_Start_Date	Not Null	No
Patient Medication	Med_End_Date	Not Null	No

Table	Column	Null/Not Null	Key
Supplies	Item_Number	Not Null	PK
Supplies	Item_Name	Not Null	No
Supplies	Item_Description	Null	No
Supplies	Quantity	Not Null	No
Supplies	Reorder_Level	Not Null	No
Supplies	Cost_Per_Unit	Not Null	No
Supplies	Ward_Number	Not Null	FK

Table	Column	Null/Not Null	Key
Pharmaceutical Supplies	Drug_Number	Not Null	PK
Pharmaceutical Supplies	Drug_Name	Not Null	No
Pharmaceutical Supplies	Description	Not Null	No
Pharmaceutical Supplies	Dosage	Not Null	No
Pharmaceutical Supplies	Method_Of_Admin	Not Null	No
Pharmaceutical Supplies	Quantity	Not Null	No
Pharmaceutical Supplies	Reorder_Level	Not Null	No
Pharmaceutical Supplies	Cost_Per_Unit	Not Null	No
Pharmaceutical Supplies	Ward_Number	Not Null	FK

Table	Column	Null/Not Null	Key
Ward Requisitions	Requisition_Number	Not Null	PK
Ward Requisitions	Staff_Name	Not Null	No
Ward Requisitions	Ward_Number	Not Null	FK
Ward Requisitions	Ward_Name	Null	No
Ward Requisitions	Description	Null	No
Ward Requisitions	Dosage	Not Null	No
Ward Requisitions	Method_Of_Admin	Not Null	No
Ward Requisitions	Cost_Per_Unit	Not Null	No
Ward Requisitions	Quantity_Required	Not Null	No
Ward Requisitions	Date_Ordered	Not Null	No
Ward Requisitions	Delivered_Date	Not Null	No

Ward Requisitions	Staff_Name (Charge Nurse)	Not Null	No

Table	Column	Null/Not Null	Key
Suppliers	Supplier_Number	Not Null	PK
Suppliers	Supplier_Name	Not Null	No
Suppliers	Address	Null	No
Suppliers	Telephone	Null	No
Suppliers	Fax	Null	No

Table 1	Relationship	Table 2	Cardinality
Wards	have	Staff	1-Many
Doctors	are	Staff	1-1
Doctors	have	Patients	1-Many
Patients	have	Medication	1-Many
Patients	have	Next of Kin	1-Many
Patients	have	Appointments	1-Many
Appointments	can be	Outpatient	1-1
Appointments	can be	Inpatient	1-1
Wards	have	Requisitions	1-Many
Wards	have	Phamacy Supplies	1-Many
Wards	have	Surg/Non Surg Supplies	1-Many
Suppliers	have	Pharmacy Supplies	1-Many
Suppliers	have	Surg/Non Surg Supplies	1-Many