**CIS 340 Assignment 2**

**04 /21/2021**

**Charith Manchukonda**

**Bethlehem Tola**

**Hanan Basha**

**Entity Type**

Patient: Patient in the hospital

Staff: People working in hospital

Ward: Room for similar type of patients

Appointment: Patient requires appointment before doctor examination

Medication: Medication prescribed by doctor

Requisition: For ordering of supplies

Suppliers: Suppliers for the surgical, non-surgical and pharmaceutical items

**Relationship Types**

One patient can have multiple Appointments

One appointment can be for only one Patient

One staff can have multiple Appointments

One appointment can have only one Staff

One patient can have multiple Medications

One medication can have multiple Patient

One staff can have multiple Requisitions

One requisition can include only one Staff

One supplier can have multiple Items

One item can have multiple Suppliers

**Entity Types**

**Ward**

ward\_no int (Primary key)

ward\_name varchar

ward\_location varchar

no\_of\_beds int

phone\_ext int

**Patient**

patient\_id int (Primary key)

first\_name varchar

last\_name varchar

address varchar

phone\_no varchar

date\_of\_birth date

sex char

marital\_status char

reg\_date date

next\_of\_kin varchar

relationship char

kin\_address varchar

kin\_phone\_no varchar

doctor\_name varchar

clinic\_no varchar

clinic\_phone\_no varchar

clinic\_address varchar

**Staff**

staff\_id int (Primary key)

first\_name varchar

last\_name varchar

address varchar

phone\_no varchar

date\_of\_birth date

sex char

type\_of\_staff char

position varchar

salary float

salary\_scale varchar

NIN varchar

date\_of\_qualification date

type\_of\_qualification varchar

institution\_name varchar

org\_name varchar

position\_held varchar

start\_date date

end\_date date

no\_of\_hours int

contract\_type char

type\_of\_salary char

shift char

**Appointment**

app\_id int (Primary key)

staff\_id int (Foreign key)

patient\_id int

ward\_no int

date\_of\_app date

time\_of\_app char

room\_no int

status char

type\_of\_app char

duration int

ward\_date date

leave\_date date

release\_date date

bed\_no int

**Medication**

med\_no int (Primary key)

patient\_id int (Foreign key)

units\_per\_day int

method char

start\_date date

end\_date date

**Items**

item\_id int (Primary key)

sup\_id int (Foreign key)

item\_name varchar

item\_desc varchar

quantity int

reorder\_level int

cost\_per\_unit int

**Pharmacy**

drug\_id int (Primary key)

sup\_id int (Foreign key)

drug\_name varchar

drug\_desc varchar

dosage varchar

method char

quantity int

reorder\_level int

cost\_per\_unit int

**Requisition**

reg\_no int (Primary key)

staff\_id int (Foreign key)

ward\_no int (Foreign key)

drug\_id int (Foreign key)

item\_id int (Foreign key)

reg\_type char

quantity int

order\_date date

delivery\_date date

**Suppliers**

sup\_id int (Primary key)

first\_name varchar

last\_name varchar

address varchar

phone\_no varchar

fax\_no varchar

**ER Diagramm(Model)**

**A picture containing text, receipt

Description automatically generated**