1) Identify entity types with brief description:

Ward – place for patients

Staff- people working at the hospital.

Appointment - Making a schedule at Hospital for a sick patient for meeting or holding a room for them.

Medications: Medicine for sick patient with a start and end date.

Items - it can mean multiple of things such as number of medicines, ID number of the medicine, Supplies ID number, Description of the medicine.

Pharmacy- place for medicine

Requisition - Form used by hospitals staff to ask for equipment’s while performing checkups, surgical etc.

Suppliers - people in charge for equipment’s in the hospital.

2) Identify relationship types with brief description. You must include the multiplicity and attributes if any.

* Ward----Unit----Patient
* Patient----Reserve----Appointments

One patient can schedule many appointments.

One appointment includes only one patient.

* Staff ----arrange----Appointment.
* Patient----Type----Medications ----- Request-----Items

One Patients can have multiple medications.

One medication can include multiple patients.

* Staff-----Supply-----Requisitions

One Staff can have multiple Requisitions.

One requisition can have only one Staff.

* Supplier Items

One Supplier can have multiple items.

One items can include multiple suppliers.

3) Describe each entity type in detail:

1. Ward

Ward\_ID

Name

Location

Number of Beds

Telephone Extensions

Primary Key: Ward No

Alternate Key : Telephone Extensions

Staff:

* Staff\_ID
* Staff name (first, last)
* Full address
* Telephone number
* Date of Birth
* Sex (Gender Male/Female)
* National Insurance Number (NIN)
* Position Held
* Current Salary
* Salary Scale

Primary Key: Staff\_ID

Alternate Key: Name

2. Patient

* Patient\_ID
* Name (First, Last)
* Address
* Phone Number
* Date of Birth
* Sex (Gender Male/Female)
* Marital Status
* Data registered
* Patient’s next of kin.

Primary Key: Patient\_ID

Alternate Key: Name

Patient’s Next of Kin:

* Full Name
* Relationship to the patient
* Address
* Phone Number

3. Medication:

* Drug\_ID
* Drug Name
* Units per day
* Method of administration
* Start and finish date.

Primary Key: Drug Number

Alternate Key: Name

5. Surgical and Nonsurgical Supplies:

* Item\_ID
* Item Name
* Item Description
* Quantity in stock
* Recorder level
* Cost per unit

5. Supplies:

* Sup\_ID
* Supplier’s number
* Address
* Telephone
* Fax numbers

Primary Key: Supplier’s Name

Alternate Key: Address

6. Pharmacy

* Drug\_ID
* Drug name
* Description
* Dosage
* Method of administration
* Quantity in stock
* Recorder level
* Cost per unit

Primary Key: Drug Number

Alternate Key: DrugName

7. Appointment

* App\_ID
* Staff\_ID
* Patient\_ID
* Ward\_no
* Date of Appointment
* Time of Appointment
* Room Number
* Ward Date
* Bed Number

8. Requisition:

* Req\_ID
* Name of member of staff placing the requisition.
* Number of ward
* Name of ward
* Item number
* Drug number
* Name
* Description
* Dosage
* Method of administration
* Cost per unit
* Quantity required
* Date ordered
* Requisitioned supplies are signed and dated by charge nurse who initiated the order.

Primary Key: Req\_ID

Alternate Key: Description