## **Entities**

1. **Ward:**

Wards for Well meadows Hospital (wards for the patients). It contains the following attributes.

Ward (Ward\_Number, Ward\_Name, Location, Total\_No\_of\_Beds, Telephone\_Extension)

**Primary Key: ward\_number**

1. **Director:**

Director for Well Medows Hospital. It contains the following attributes.

Director(director\_id, director\_name, start\_date, address, city, contact\_number)

**Primary Key: director\_id**

1. **Personal Officer:**

Personal Officer for Well Meadows Hospital. It contain the following attributes.

Personal\_Officer(officer\_id, officer\_name, start\_date, address, city, contact\_number)

**Primary Key: officer\_id**

1. **Supplies:**

Super class for all types of medical supplies for Well Meadown Hospital. It contains the following attributes.

Supplies(supply\_id, supply\_name, quantity\_in\_stock, recorder\_level, cost\_per\_unit)

**Primary Key: supply\_id.**

1. **Surgical & non surgical:**

Sub class for supplies for Well Meadows Hospital. It contains the following attributes.

Surgical\_and\_non\_surgical(description)

1. **Pharmaceutical Supplies:**

Sub class for supplies for Well Meadows Hospital. It contains the following attributes.

Pharmaceutical\_supplies(dosage, method\_of\_administration)

1. **Supplier:**

Supplier for supplies for Well Meadows Hospital. It contains the following attributes.

Supplier(supplier\_id, supplier\_name, address, telephone, fax\_number)

**Primary Key: supplier\_id.**

1. **Staff:**

Records for the staff of the well meadow’s hospital. It has the following attributes

Staff (Staff\_Number, First\_Name, Last\_Name, Address, Sex, Tel\_No, DOB, NIN, position\_held, Ward\_Number, Current\_Salary,salary\_scale)

**Primary Key: staff\_number**

**Foreign Key: ward\_number**

1. **Contract:**

Details of contract of the staff of the Well Meadow’s Hospital. It has the following attributes.

Contract(contract\_id, staff\_number, number\_of\_hours, contract\_type, type\_of\_salary)

**Primary Key: contract\_id**

**Foreign Key: staff\_number**

1. **Qualification:**

Details of the qualification of the staff of the Well Meadow’s Hospital. It has the following attributes.

Qualification(qualification\_id, staff\_number, description, date\_of\_completion, type, institute\_name).

**Primary Key: qualification\_id**

**Foreign Key: staff\_number**

1. **Work Experience:**

Details of the Work Experiences of the staff of the Well Meadow’s Hospital. It has the following attributes.

Work\_Experience(experience\_id, staff\_number, name\_of\_organization, position, start\_date, end\_date)

**Primary Key: experience\_id**

**Foreign Key: staff\_number**

1. **Charge\_Nurse:**

Details of the Charge Nurse of the ward of Well Meadow’s Hospital. It has the following attributes.

Charge\_nurse(nurse\_id, staff\_number, ward\_number, budget)

**Primary Key: nurse\_id**

**Foreign Key: staff\_number, ward\_number**

1. **Ward Requisitions:**

Details of the ward requisitions ordered for the medical supplies by charge\_nurse of a ward in Well Meadow’s Hospital. It has the following attributes

Ward\_requisitions(requisition\_number, supply\_id, nurse\_id, staff\_number, quantity\_ordered, date\_ordered)

**Primary Key: requisition\_number, supply\_id, nurse\_id**

**Foreign Key: supply\_id, nurse\_id**

1. **Patient:**

Details of the patient in Well Meadow’s Hospital. It is a super class for inpatient and outpatient. It has the following attributes.

Patient(patient\_number, doctor\_id, fname, lname, address, phone, DOB, sex, marital\_status, date\_registered)

**Primary Key: patient\_number**

**Foreign Key: doctor\_id**

1. **Inpatient:**

Sub class for the patient which are admitted in Well Meadow’s Hospital. It has the following attributes

Inpatient(ward\_required, waiting\_list\_date, expected\_stay, date\_admitted, expected\_leave\_day, date\_left, bed\_number).

1. **Outpatient:**

Sub class for the patient which are not admitted in Well Meadow’s Hospital. It has the following attributes

Outpatient(appointment\_date, curr\_status)

1. **Appointment:**

Details for appointment and check up of all type of patients of Well Meadow’s Hospital. It has the following attribtues.

Appointment(appointment\_id, staff\_number, patient\_number, date\_of\_examination, examination\_room)

**Primary Key: appointment\_id**

**Foregin Key: staff\_number, patient\_number**

1. **Medication:**

Details for the medications of the patients of the Well Meadow’s hospital. It has the following attributes.

Medication(medication\_id, patient\_number, drug\_number, drug\_name, units\_per\_day, method\_of\_administration, start\_date, end\_date)

**Primary Key: medication\_id**

**Foreign Key: patient\_number**

1. **Next of kin:**

Details of the next of kin for the patient of Well Meadow’s Hospital. It has the following attributes.

Next\_of\_kin(fullname, patient\_id, relationship, address, phone, id)

**Primary Key: id**

**Foreign Key: patient\_id**

1. **Local Doctor:**

Details of the doctor who has referred a patient to the Well Meadow’s Hospital. It has the following attributes.

Local\_doctor(doctor\_id fullname, clinic\_number, clinic\_address, clinic\_phone)

**Primary Key: doctor\_id**

## Relationships

|  |  |  |  |
| --- | --- | --- | --- |
| Relationship | | | Cardinality |
| Parents | Child | Type |  |
| Hospital | Ward | ID dependent | 1-N |
| Ward | Staff | Strong | M-N |
| Staff | Contract | ID-Dependent | 1-N |
| Staff | Work experience | ID-Dependent | 1-N |
| Staff | Qualification | ID-Dependent | 1-N |
| Hospital | Supplies | ID Dependent | 1-N |
| Supplies | Supplier | Strong | M-N |
| Hospital | Director | ID dependent | 1-1 |
| Hospital | Personal\_Officer | ID dependent | 1-1 |
| Hospital | Patient | ID dependent | 1-N |
| Ward | Charge Nurse | Strong | 1-1 |
| Charge Nurse | Ward Requisition | Strong | 1-N |
| Ward Requisition | Supplies | Strong | 1-N |
| Patient | Medication | ID Dependant | 1-N |
| Patient | Appointment | ID Dependant | 1-N |
| Patient | Next Of Kin | ID Dependant | 1-1 |
| Patient | Local Doctor | ID Dependant | 1-1 |