- Hospital is an Entity with attributes (Name, Address) Primary Key is Name.

- Patient is an Entity with attributes (ID, Phone number, Age, Gender, Ethnicity, Date of Death) Primary Key is ID.

- Department is an Entity with attributes (ID, Name) Primary Key is ID.

- Medical Test is an entity with attributes (Identifier, Name, Type of test) Primary Key is Identifier.

- Drugs is an Entity with attributes (Identifier, Name, Type, Manufacturer) Primary Key is Identifier.

- Disease is an Entity with attributes (Identifier, Name, Category) Primary Key Identifier.

- Employee is an Entity with attributes (ID, Phone number, Age, Gender, Ethnicity, role, Hospital name, Department ID) and has a many-one relationship with hospital. Primary Key is ID.

- Hospital Contains Department is a relationship with attributes (Hospital name, Department ID, Capacity) Primary Key is Hospital Name and Department. Hospital name is a Foreign Key. Department is a Foreign Key.

- ICU is a weak-Entity with attributes (Name, Capacity, Hospital Name). Primary Key is Name. Hospital name is a Foreign Key.

- Admission record is an entity with attributes (ID, Discharge date, Date of admission, Hospital name, Patient ID) Primary is ID. Hospital name is a Foreign Key. Patient ID is a Foreign Key.

- Lab Record is an entity with attributes (ID, Resulting outcome, Date if performed, Value of test, Patient ID) Primary Key is ID. Patient ID is a Foreign Key.

- Lab Record contains medical test is a relationship with attributes (Medical test identifier, Lab record ID) Primary Key is Medical test identifier and Lab record ID. Lab record ID is a Foreign Key. Medical test identifier is a Foreign Key.

- Patient gets disease is a relationship with attributes (Patient ID, Disease identifier) Primary Key is Patient ID and Disease identifier. Patient ID is a Foreign Key. Disease identifier is a Foreign Key.

- Lab Record contains ICU is a relationship with attributes (Admission record ID, ICU name, Hospital name, Entering date, Leaving date) Primary Key is Admission

record ID, ICU name, Hospital name. Admission record ID is a Foreign Key. ICU name and Hospital name is a Foreign Key.

- Prescription is an entity with attributes (<u>RX number</u>, Start date, End date, Admission record ID) Primary Key is RX number. Admission record ID is a Foreign Key.

- Prescription administers drugs is a relationship with attributes (<u>Drug identifier</u>, <u>RX number</u>, Dosage) Primary Key is Drug identifier and RX number. Drug identifier is a Foreign Key. RX number is a Foreign Key.