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| **Hospital Database**  **Project Report**  **Prepared by:**  CIS-340, Khan  Minnesota State University  Mankato, MN, 56001 |

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ERD Access:  
  
Open in lucid chart:   
  
<https://lucid.app/lucidchart/b5f300c9-6259-47c5-be1b-c62b5984728c/edit?viewport_loc=-819%2C-924%2C1231%2C773%2C0_0&invitationId=inv_0065d88f-8831-4101-b814-5ab78b280cdf>

# # Database Script Version 1:

DROP SCHEMA hospital;

CREATE SCHEMA hospital COLLATE = utf8\_general\_ci;

USE hospital;

CREATE TABLE PATIENT

(

PATIENT\_ID DECIMAL(9,0) PRIMARY KEY,

PATIENT\_NAME VARCHAR(50) NOT NULL,

PATIENT\_GENDER CHAR(11) NOT NULL,

PATIENT\_GENETIC\_INFO\_ID DECIMAL(9,0) NOT NULL,

PATIENT\_BIRTH\_DATE DATE NOT NULL,

REFERRED\_BY VARCHAR(50) NOT NULL,

ADMISSION\_DATE DATE NOT NULL,

DISCHARGE\_DATE DATE,

HEIGHT\_ON\_ADMISSION VARCHAR(22) NOT NULL,

WEIGHT\_ON\_ADMISSION VARCHAR(22) NOT NULL,

OTHER\_DETAILS VARCHAR(100),

ROOM\_ID DECIMAL(9,0) NOT NULL

);

CREATE TABLE PATIENT\_HISTORY\_INFORMATION

(

PATIENT\_HISTORY\_ID DECIMAL(9,0) PRIMARY KEY,

PATIENT\_DISORDER\_NAME VARCHAR(50) NOT NULL,

ASSOCIATED\_RISKS VARCHAR(66) NOT NULL,

COUNTRIES\_OF\_ORIGIN VARCHAR(58) NOT NULL,

INFO\_PHOTO\_FILENAME VARCHAR(50) NOT NULL,

OTHER\_DETAILS VARCHAR(106)

);

CREATE TABLE APPOINTMENT

(

APPOINTMENT\_DATE DATE NOT NULL,

PATIENT\_ID DECIMAL(9,0) NOT NULL,

HEIGHT VARCHAR(20) NOT NULL,

WEIGHT VARCHAR(20) NOT NULL,

BODY\_LENGTH VARCHAR(20) NOT NULL,

GENERAL\_HEALTH VARCHAR(100) NOT NULL,

OTHER\_DETAILS VARCHAR(100),

PRIMARY KEY (APPOINTMENT\_DATE, PATIENT\_ID)

);

CREATE TABLE PATIENT\_DIETARY\_REQUIREMENTS

(

DIETARY\_ITEM\_ID DECIMAL(9,0) NOT NULL,

PATIENT\_ID DECIMAL(9,0) NOT NULL,

DIETARY\_REQUIREMENTS VARCHAR(100) NOT NULL,

PRIMARY KEY (DIETARY\_ITEM\_ID, PATIENT\_ID)

);

CREATE TABLE PATIENT\_ROOM

(

ROOM\_ID DECIMAL(9,0) PRIMARY KEY,

ROOM\_TYPE VARCHAR(40) NOT NULL

);

CREATE TABLE MEDICAL\_ASSOCIATION

(

ASSOC\_ID DECIMAL(3,0) PRIMARY KEY,

ASSOC\_NAME VARCHAR(60) NOT NULL

);

CREATE TABLE HOSPITAL\_EMPLOYEE

(

EMP\_ID DECIMAL(4,0) PRIMARY KEY,

DEPT\_ID DECIMAL(3,0),

OFFICE\_ID DECIMAL(3,0),

HOSPITAL\_ID DECIMAL(4,0),

EMP\_FIRST\_NAME VARCHAR(30) NOT NULL,

EMP\_LAST\_NAME VARCHAR(30) NOT NULL,

EMP\_PHONE\_NUMBER DECIMAL(10,0) NOT NULL,

EMP\_SALARY DECIMAL(6,0) NOT NULL,

EMP\_SOCIAL\_SECURITY\_NUMBER DECIMAL(9,0) NOT NULL,

EMP\_HIRE\_DATE DATE NOT NULL,

EMP\_DEPARTURE\_DATE DATE,

EMP\_TYPE VARCHAR(2),

EMP\_ADDRESS VARCHAR(50) NOT NULL,

EMP\_CITY VARCHAR(40) NOT NULL,

EMP\_ZIP\_CODE DECIMAL(5,0) NOT NULL,

EMP\_STATE VARCHAR(2) NOT NULL

);

CREATE TABLE PHYSICIAN

(

PHYSICIAN\_ID DECIMAL(4,0) NOT NULL,

ASSOC\_ID DECIMAL(3,0) NOT NULL,

PHYSICIAN\_FIRST\_NAME VARCHAR(30) NOT NULL,

PHYSICIAN\_LAST\_NAME VARCHAR(30) NOT NULL,

HOSPITAL\_NAME VARCHAR(60) NOT NULL,

PHYSICIAN\_PHONE\_NUMBER DECIMAL(10,0) NOT NULL,

PRIMARY KEY (PHYSICIAN\_ID, ASSOC\_ID)

);

# Database Script Version 2:  
  
DROP SCHEMA hospital;

CREATE SCHEMA hospital COLLATE = utf8\_general\_ci;

USE hospital;

CREATE TABLE Hospital\_Info (

HOSPITAL\_ID DECIMAL(11,0) PRIMARY KEY,

HOSPITAL\_NAME VARCHAR(60) NOT NULL,

HOSPITAL\_CONTACT DECIMAL(10,0) NOT NULL,

HOSPITAL\_ADDRESS VARCHAR(100) NOT NULL

);

CREATE TABLE Office (

OFFICE\_ID DECIMAL(11,0) PRIMARY KEY,

OFFICE\_PHONE DECIMAL(10,0) NOT NULL,

OFFICE\_BUILDING VARCHAR(50) NOT NULL

);

CREATE TABLE Department (

DEPT\_ID DECIMAL(11,0) PRIMARY KEY,

HOSPITAL\_ID DECIMAL(11,0),

DEPT\_NAME VARCHAR(50) NOT NULL,

FOREIGN KEY (HOSPITAL\_ID) REFERENCES Hospital\_Info(HOSPITAL\_ID)

);

CREATE TABLE Food\_Category (

FOOD\_CATEGORY\_ID DECIMAL(11,0) PRIMARY KEY,

FOOD\_DESCRIPTION VARCHAR(100) NOT NULL

);

CREATE TABLE Food\_Item (

FOOD\_ITEM\_ID DECIMAL(9,0) PRIMARY KEY,

ITEM\_DESCRIPTION VARCHAR(100) NOT NULL,

FOOD\_CATEGORY\_ID DECIMAL(11,0),

FOREIGN KEY (FOOD\_CATEGORY\_ID) REFERENCES Food\_Category(FOOD\_CATEGORY\_ID)

);

CREATE TABLE Patient\_Room (

ROOM\_ID DECIMAL(9,0) PRIMARY KEY,

ROOM\_TYPE VARCHAR(40) NOT NULL

);

CREATE TABLE Patient (

PATIENT\_ID DECIMAL(9,0) PRIMARY KEY,

HOSPITAL\_ID DECIMAL(11,0),

PATIENT\_NAME VARCHAR(50) NOT NULL,

PATIENT\_GENDER CHAR(11) NOT NULL,

PATIENT\_GENETIC\_INFO\_ID DECIMAL(9,0) NOT NULL,

PATIENT\_BIRTH\_DATE DATE NOT NULL,

REFERRED\_BY VARCHAR(50) NOT NULL,

ADMISSION\_DATE DATE,

DISCHARGE\_DATE DATE,

HEIGHT\_ON\_ADMISSION VARCHAR(22) NOT NULL,

WEIGHT\_ON\_ADMISSION VARCHAR(22) NOT NULL,

OTHER\_DETAILS VARCHAR(100),

ROOM\_ID DECIMAL(9,0) NOT NULL,

FOREIGN KEY(HOSPITAL\_ID) REFERENCES Hospital\_Info(HOSPITAL\_ID),

FOREIGN KEY(ROOM\_ID) REFERENCES Patient\_Room(ROOM\_ID)

);

CREATE TABLE Patient\_Dietary\_Requirements (

DIETARY\_ITEM\_ID DECIMAL(9,0) PRIMARY KEY,

PATIENT\_ID DECIMAL(9,0),

FOOD\_ITEM\_ID DECIMAL(9,0),

FOREIGN KEY (PATIENT\_ID) REFERENCES Patient(PATIENT\_ID),

FOREIGN KEY (FOOD\_ITEM\_ID) REFERENCES Food\_Item(FOOD\_ITEM\_ID)

);

CREATE TABLE Patient\_History\_Information (

PATIENT\_HISTORY\_ID DECIMAL(9,0) PRIMARY KEY,

PATIENT\_DISORDER\_NAME VARCHAR(50) NOT NULL,

ASSOCIATED\_RISKS VARCHAR(66) NOT NULL,

COUNTRIES\_OF\_ORIGIN VARCHAR(58) NOT NULL,

INFO\_PHOTO\_FILENAME VARCHAR(50) NOT NULL,

OTHER\_DETAILS VARCHAR(106)

);

CREATE TABLE Appointment (

APPOINTMENT\_DATE DATE NOT NULL,

PATIENT\_ID DECIMAL(9,0) NOT NULL,

HEIGHT VARCHAR(20) NOT NULL,

WEIGHT VARCHAR(20) NOT NULL,

BODY\_LENGTH VARCHAR(20) NOT NULL,

GENERAL\_HEALTH VARCHAR(100) NOT NULL,

OTHER\_DETAILS VARCHAR(100),

PRIMARY KEY (APPOINTMENT\_DATE, PATIENT\_ID)

);

CREATE TABLE Medical\_Association (

ASSOC\_ID DECIMAL(3,0) PRIMARY KEY,

ASSOC\_NAME VARCHAR(60) NOT NULL

);

CREATE TABLE Hospital\_Employee (

EMP\_ID DECIMAL(4,0) PRIMARY KEY,

DEPT\_ID DECIMAL(6,0),

OFFICE\_ID DECIMAL(11,0) ,

HOSPITAL\_ID DECIMAL(11,0),

EMP\_FIRST\_NAME VARCHAR(30) NOT NULL,

EMP\_LAST\_NAME VARCHAR(30) NOT NULL,

EMP\_PHONE\_NUMBER DECIMAL(10,0) NOT NULL,

EMP\_SALARY DECIMAL(6,0) NOT NULL,

EMP\_SOCIAL\_SECURITY\_NUMBER DECIMAL(9,0) NOT NULL,

EMP\_HIRE\_DATE DATE NOT NULL,

EMP\_DEPARTURE\_DATE DATE,

EMP\_TYPE VARCHAR(2),

EMP\_ADDRESS VARCHAR(50) NOT NULL,

EMP\_CITY VARCHAR(40) NOT NULL,

EMP\_ZIP\_CODE DECIMAL(5,0) NOT NULL,

EMP\_STATE VARCHAR(2) NOT NULL,

FOREIGN KEY (OFFICE\_ID) REFERENCES Office(OFFICE\_ID),

FOREIGN KEY (HOSPITAL\_ID) REFERENCES Hospital\_Info(HOSPITAL\_ID)

);

CREATE TABLE Physician (

PHYSICIAN\_ID DECIMAL(4,0) NOT NULL,

ASSOC\_ID DECIMAL(3,0) NOT NULL,

PHYSICIAN\_FIRST\_NAME VARCHAR(30) NOT NULL,

PHYSICIAN\_LAST\_NAME VARCHAR(30) NOT NULL,

HOSPITAL\_NAME VARCHAR(60) NOT NULL,

PHYSICIAN\_PHONE\_NUMBER DECIMAL(10,0) NOT NULL,

PRIMARY KEY (PHYSICIAN\_ID, ASSOC\_ID)

);

CREATE TABLE Medication (

MED\_ID DECIMAL(9,0) PRIMARY KEY,

MED\_TYPE VARCHAR(50) NOT NULL,

MED\_MEASURE VARCHAR(50) NOT NULL

);

CREATE TABLE Illness\_Type (

ILLNESS\_TYPE\_ID DECIMAL(9,0) PRIMARY KEY,

ILLNESS\_DESCRIPTION VARCHAR(100) NOT NULL,

ILL\_TREATMENT VARCHAR(100) NOT NULL

);

CREATE TABLE Diagnosis (

PATIENT\_ID DECIMAL(9,0),

ILLNESS\_TYPE\_ID DECIMAL(9,0),

ILLNESS\_START\_DATE DATE,

ILLNESS\_END\_DATE DATE,

PRIMARY KEY (PATIENT\_ID, ILLNESS\_TYPE\_ID),

FOREIGN KEY (PATIENT\_ID) REFERENCES Patient(PATIENT\_ID),

FOREIGN KEY (ILLNESS\_TYPE\_ID) REFERENCES Illness\_Type(ILLNESS\_TYPE\_ID)

);

CREATE TABLE Prescription (

PRESCRIPTION\_ID DECIMAL(11,0) PRIMARY KEY,

PATIENT\_ID DECIMAL(9,0),

MED\_ID DECIMAL(9,0),

FOREIGN KEY (PATIENT\_ID) REFERENCES Patient(PATIENT\_ID),

FOREIGN KEY (MED\_ID) REFERENCES Medication(MED\_ID)

# # Dummy Data:

## # Independent Tables

### # Hospital Info:

INSERT INTO Hospital\_Info (HOSPITAL\_ID, HOSPITAL\_NAME, HOSPITAL\_CONTACT, HOSPITAL\_ADDRESS)

VALUES

(1001, 'St. Mary\'s Hospital', 1234567890, '123 Main Street, Cityville, State'),

(1002, 'City General Hospital', 2345678901, '456 Elm Street, Townsville, State'),

(1003, 'Memorial Hospital', 3456789012, '789 Oak Street, Villagetown, State'),

(1004, 'Unity Hospital', 4567890123, '987 Maple Avenue, Hamletville, State'),

(1005, 'Sunset Community Hospital', 5678901234, '321 Pine Street, Suburbia, State'),

(1006, 'Golden Gate Medical Center', 6789012345, '654 Cedar Street, Metropolis, State'),

(1007, 'Riverfront Regional Hospital', 7890123456, '876 Birch Street, Riverside, State'),

(1008, 'Pinecrest Health Center', 8901234567, '543 Spruce Street, Hillside, State'),

(1009, 'Valley View Medical Clinic', 9012345678, '210 Oakwood Drive, Mountainville, State'),

(1010, 'Harborview Hospital', 1234567890, '789 Beach Avenue, Oceantown, State');

### # Office:

INSERT INTO Office (OFFICE\_ID, OFFICE\_PHONE, OFFICE\_BUILDING)

VALUES

(1101, 1234567890, 'Smith Building'),

(1102, 2345678901, 'Jones Tower'),

(1103, 3456789012, 'Johnson Center'),

(1104, 4567890123, 'Williams Hall'),

(1105, 5678901234, 'Brown Office Park'),

(1106, 6789012345, 'Miller Plaza'),

(1107, 7890123456, 'Davis Building'),

(1108, 8901234567, 'Wilson Complex'),

(1109, 9012345678, 'Taylor Tower'),

(1110, 9876543210, 'Clark Hall');

### # Food\_Category:

INSERT INTO Food\_Category (FOOD\_CATEGORY\_ID, FOOD\_DESCRIPTION)

VALUES

(2200000001, 'Fruits'),

(2200000002, 'Meats'),

(2200000003, 'Vegetables'),

(2200000004, 'Grains'),

(2200000005, 'Dairy Products'),

(2200000006, 'Seafood'),

(2200000007, 'Sweets'),

(2200000008, 'Beverages'),

(2200000009, 'Snacks'),

(2200000019, 'Condiments');

### # Patient\_Room:

INSERT INTO Patient\_Room (ROOM\_ID, ROOM\_TYPE) VALUES

(101, 'Single'),

(102, 'Double'),

(103, 'Single'),

(104, 'Double'),

(105, 'Single'),

(106, 'Double'),

(107, 'Single'),

(108, 'Double'),

(109, 'Single'),

(110, 'Double');

### # Medical\_Association:

INSERT INTO Medical\_Association (ASSOC\_ID, ASSOC\_NAME)

VALUES

(101, 'American Medical Association'),

(102, 'American Medical Association British Medical Association'),

(103, 'American Medical Association Canadian Medical Association'),

(104, 'American Medical Association Australian Medical Association'),

(105, 'American Medical Association German Medical Association'),

(106, 'American Medical Association French Medical Association'),

(107, 'American Medical Association Italian Medical Association'),

(108, 'American Medical Association Spanish Medical Association'),

(109, 'American Medical Association Japanese Medical Association'),

(110, 'American Medical Association Brazilian Medical Association');

### # Medication:

INSERT INTO Medication (MED\_ID, MED\_TYPE, MED\_MEASURE)

VALUES

(201, 'Aspirin', 'mg'),

(202, 'Paracetamol', 'mg'),

(203, 'Ibuprofen', 'mg'),

(204, 'Amoxicillin', 'mg'),

(205, 'Loratadine', 'mg'),

(206, 'Omeprazole', 'mg'),

(207, 'Ventolin', 'mcg'),

(208, 'Atorvastatin', 'mg'),

(209, 'Metformin', 'mg'),

(210, 'Ciprofloxacin', 'mg');

### # Ilness\_type:

INSERT INTO Illness\_Type (ILLNESS\_TYPE\_ID, ILLNESS\_DESCRIPTION, ILL\_TREATMENT)

VALUES

(200000001, 'Common Cold', 'Rest and fluids'),

(200000002, 'Influenza', 'Antiviral medication'),

(200000003, 'Allergic Rhinitis', 'Antihistamines'),

(200000004, 'Bronchitis', 'Antibiotics, rest'),

(200000005, 'Pneumonia', 'Antibiotics, oxygen therapy'),

(200000006, 'Asthma', 'Bronchodilators, corticosteroids'),

(200000007, 'Hypertension', 'Medication, lifestyle changes'),

(200000008, 'Diabetes Mellitus', 'Insulin, oral medications'),

(200000009, 'Gastroenteritis', 'Fluid replacement, rest'),

(200000010, 'Migraine', 'Pain relievers, rest');

## # Dependent Tables (Level 1)

### # Department:

INSERT INTO Department (DEPT\_ID, HOSPITAL\_ID, DEPT\_NAME)

VALUES

(1011, 1001, 'Cardiology'),

(1022, 1002, 'Orthopedics'),

(1033, 1003, 'Pediatrics'),

(1044, 1004, 'Neurology'),

(1055, 1005, 'Oncology'),

(1066, 1006, 'Gynecology'),

(1077, 1007, 'Dermatology'),

(1088, 1008, 'Endocrinology'),

(1099, 1009, 'Radiology'),

(1100, 1010, 'Emergency Medicine');

### # Food\_Item:

INSERT INTO Food\_Item (FOOD\_ITEM\_ID, ITEM\_DESCRIPTION, FOOD\_CATEGORY\_ID)

VALUES

(110000001, 'Apple', 2200000001),

(110000002, 'Banana', 2200000002),

(110000003, 'Orange', 2200000003),

(110000004, 'Chicken Breast', 2200000004),

(110000005, 'Salmon', 2200000005),

(110000006, 'Broccoli', 2200000006),

(110000007, 'Spinach', 2200000007),

(110000008, 'Rice', 2200000008),

(110000009, 'Pasta', 2200000009),

(110000010, 'Bread', 2200000019);

### # Hospital\_Employee:

INSERT INTO Hospital\_Employee (EMP\_ID, DEPT\_ID, OFFICE\_ID, HOSPITAL\_ID, EMP\_FIRST\_NAME, EMP\_LAST\_NAME, EMP\_PHONE\_NUMBER, EMP\_SALARY, EMP\_SOCIAL\_SECURITY\_NUMBER, EMP\_HIRE\_DATE, EMP\_DEPARTURE\_DATE, EMP\_TYPE, EMP\_ADDRESS, EMP\_CITY, EMP\_ZIP\_CODE, EMP\_STATE)

VALUES

(1111, 1011, 1101, 1001, 'John', 'Doe', 1234567890, 50000, 123456789, '2023-01-01', NULL, 'FT', '123 Main St', 'Anytown', 12345, 'NY'),

(2222, 1022, 1102, 1002, 'Jane', 'Smith', 2345678901, 55000, 234567890, '2023-02-15', NULL, 'FT', '456 Elm St', 'Othertown', 23456, 'CA'),

(3333, 1033, 1103, 1003, 'Michael', 'Johnson', 3456789012, 60000, 345678901, '2023-03-30', NULL, 'FT', '789 Oak St', 'Anotherplace', 34567, 'TX'),

(4444, 1044, 1104, 1004, 'Emily', 'Williams', 4567890123, 58000, 456789012, '2023-04-10', NULL, 'FT', '321 Pine St', 'Newcity', 45678, 'FL'),

(5555, 1055, 1105, 1005, 'Daniel', 'Brown', 5678901234, 62000, 567890123, '2023-05-20', NULL, 'FT', '987 Cedar St', 'Oldtown', 56789, 'WA'),

(6666, 1066, 1106, 1006, 'Olivia', 'Jones', 6789012345, 54000, 678901234, '2023-06-25', NULL, 'PT', '654 Birch St', 'Nearbytown', 67890, 'IL'),

(7777, 1077, 1107, 1007, 'Ethan', 'Davis', 7890123456, 53000, 789012345, '2023-07-15', NULL, 'PT', '123 Maple St', 'Farawaytown', 78901, 'MI'),

(8888, 1088, 1108, 1008, 'Sophia', 'Miller', 8901234567, 58000, 890123456, '2023-08-05', NULL, 'FT', '456 Walnut St', 'Distanttown', 89012, 'OH'),

(9999, 1099, 1109, 1009, 'Noah', 'Wilson', 9012345678, 59000, 901234567, '2023-09-10', NULL, 'FT', '789 Cherry St', 'Nearbycity', 90123, 'AZ'),

(1000, 1100, 1110, 1010, 'Isabella', 'Taylor', 123456789, 60000, 12345678, '2023-10-20', NULL, 'FT', '987 Willow St', 'Farawaycity', 1234, 'NC');

### # Physician:

INSERT INTO Physician (PHYSICIAN\_ID, ASSOC\_ID, PHYSICIAN\_FIRST\_NAME, PHYSICIAN\_LAST\_NAME, HOSPITAL\_NAME, PHYSICIAN\_PHONE\_NUMBER)

VALUES

(1001, 101, 'John', 'Smith', 'General Hospital', 1234567890),

(1002, 102, 'Emily', 'Johnson', 'Mercy Hospital', 2345678901),

(1003, 103, 'Michael', 'Williams', 'Memorial Hospital', 3456789012),

(1004, 104, 'Sophia', 'Brown', 'St. Luke''s', 4567890123),

(1005, 105, 'Daniel', 'Jones', 'Community Hospital', 5678901234),

(1006, 106, 'Olivia', 'Garcia', 'University Hospital', 6789012345),

(1007, 107, 'Ethan', 'Martinez', 'Children''s Hospital', 7890123456),

(1008, 108, 'Isabella', 'Hernandez', 'Veterans Hospital', 8901234567),

(1009, 109, 'Noah', 'Miller', 'Baptist Hospital', 9012345678),

(1010, 110, 'Emma', 'Davis', 'Regional Hospital', 123456789);

## # Dependent Tables (Level 2)

### # Patient:

INSERT INTO Patient (PATIENT\_ID, HOSPITAL\_ID, PATIENT\_NAME, PATIENT\_GENDER, PATIENT\_GENETIC\_INFO\_ID, PATIENT\_BIRTH\_DATE, REFERRED\_BY, ADMISSION\_DATE, DISCHARGE\_DATE, HEIGHT\_ON\_ADMISSION, WEIGHT\_ON\_ADMISSION, OTHER\_DETAILS, ROOM\_ID) VALUES

(100000001, 1001, 'John Smith', 'Male', 200000001, '1985-07-15', 'Dr. Johnson', '2023-04-10', '2023-04-15', '6 ft 1 in', '180 lbs', 'None', 101),

(100000002, 1002, 'Emily Johnson', 'Female', 200000002, '1990-03-25', 'Dr. Williams', '2023-04-12', '2023-04-20', '5 ft 6 in', '150 lbs', 'Allergic to penicillin', 102),

(100000003, 1003, 'Michael Brown', 'Male', 200000003, '1978-11-08', 'Dr. Davis', '2023-04-15', NULL, '5 ft 9 in', '170 lbs', 'High cholesterol', 103),

(100000004, 1004, 'Sophia Garcia', 'Female', 200000004, '1989-09-30', 'Dr. Martinez', '2023-04-20', '2023-04-25', '5 ft 4 in', '130 lbs', 'None', 104),

(100000005, 1005, 'Daniel Lee', 'Male', 200000005, '1976-05-18', 'Dr. Brown', '2023-04-25', NULL, '6 ft 0 in', '160 lbs', 'Type 2 diabetes', 105),

(100000006, 1006, 'Olivia Taylor', 'Female', 200000006, '1995-12-12', 'Dr. Wilson', '2023-04-28', '2023-05-05', '5 ft 5 in', '140 lbs', 'Asthma', 106),

(100000007, 1007, 'Ethan Martinez', 'Male', 200000007, '1983-08-22', 'Dr. Moore', '2023-05-01', '2023-05-08', '5 ft 10 in', '175 lbs', 'None', 107),

(100000008, 1008, 'Isabella Hernandez', 'Female', 200000008, '1998-04-04', 'Dr. Anderson', '2023-05-05', NULL, '5 ft 7 in', '150 lbs', 'None', 108),

(100000009, 1009, 'Noah Miller', 'Male', 200000009, '1980-10-20', 'Dr. Taylor', '2023-05-10', '2023-05-18', '6 ft 2 in', '190 lbs', 'High blood pressure', 109),

(100000010, 1010, 'Emma Davis', 'Female', 200000010, '1992-07-17', 'Dr. Hernandez', '2023-05-15', NULL, '5 ft 8 in', '160 lbs', 'None', 110);

### # Patient\_History\_Information:

INSERT INTO Patient\_History\_Information (PATIENT\_HISTORY\_ID, PATIENT\_DISORDER\_NAME, ASSOCIATED\_RISKS, COUNTRIES\_OF\_ORIGIN, INFO\_PHOTO\_FILENAME, OTHER\_DETAILS)

VALUES

(101111, 'Depression', 'Heart defects', 'Tanzania', 'https://loremflickr.com/600/400/people/', 'Anxiety'),

(200000, 'Hypertension', 'Heart Disease', 'UK', 'https://loremflickr.com/320/240', 'Fatigue'),

(200111, 'Hypertension', 'Stroke', 'UK', 'https://loremflickr.com/320/240', 'Fatigue'),

(200222, 'Diabetes', 'Heart Disease', 'UK', 'https://loremflickr.com/320/240', 'Fatigue'),

(200333, 'Allergies', 'Heart Disease', 'Canada', 'https://loremflickr.com/320/240', 'Fatigue'),

(200444, 'Diabetes', 'Heart Disease', 'USA', 'https://loremflickr.com/320/240', 'Nausea'),

(200555, 'Diabetes', 'Stroke', 'USA', 'https://loremflickr.com/320/240', 'Headache'),

(200666, 'Hypertension', 'Stroke', 'USA', 'https://loremflickr.com/320/240', 'Fatigue');

### # Appointment:

INSERT INTO Appointment (APPOINTMENT\_DATE, PATIENT\_ID, HEIGHT, WEIGHT, BODY\_LENGTH, GENERAL\_HEALTH, OTHER\_DETAILS) VALUES

('2023-04-10', 100000001, '6 ft 1 in', '180 lbs', '30 in', 'Good', NULL),

('2023-04-12', 100000002, '5 ft 6 in', '150 lbs', '28 in', 'Stable', NULL),

('2023-04-15', 100000003, '5 ft 9 in', '170 lbs', '29 in', 'Normal', NULL),

('2023-04-20', 100000004, '5 ft 4 in', '130 lbs', '27 in', 'Fair', NULL),

('2023-04-25', 100000005, '6 ft 0 in', '160 lbs', '30 in', 'Good', NULL),

('2023-04-28', 100000006, '5 ft 5 in', '140 lbs', '28 in', 'Stable', NULL),

('2023-05-01', 100000007, '5 ft 10 in', '175 lbs', '29 in', 'Normal', NULL),

('2023-05-05', 100000008, '5 ft 7 in', '150 lbs', '28 in', 'Fair', NULL),

('2023-05-10', 100000009, '6 ft 2 in', '190 lbs', '31 in', 'Good', NULL),

('2023-05-15', 100000010, '5 ft 8 in', '160 lbs', '29 in', 'Stable', NULL);

### # Diagnosis:

INSERT INTO Diagnosis (PATIENT\_ID, ILLNESS\_TYPE\_ID, ILLNESS\_START\_DATE, ILLNESS\_END\_DATE) VALUES

(100000001, 200000001, '2023-01-10', '2023-01-20'),

(100000002, 200000002, '2023-02-15', '2023-02-25'),

(100000003, 200000003, '2023-03-20', '2023-03-30'),

(100000004, 200000004, '2023-04-25', '2023-05-05'),

(100000005, 200000005, '2023-05-01', '2023-05-10'),

(100000006, 200000006, '2023-06-05', '2023-06-15'),

(100000007, 200000007, '2023-07-10', '2023-07-20'),

(100000008, 200000008, '2023-08-15', '2023-08-25'),

(100000009, 200000009, '2023-09-20', '2023-09-30'),

(100000010, 200000010, '2023-10-25', '2023-11-05');

### # Prescription:

INSERT INTO Prescription (PRESCRIPTION\_ID, PATIENT\_ID, MED\_ID) VALUES

(1001, 100000001, 201),

(1002, 100000002, 202),

(1003, 100000003, 203),

(1004, 100000004, 204),

(1005, 100000005, 205),

(1006, 100000006, 206),

(1007, 100000007, 207),

(1008, 100000008, 208),

(1009, 100000009, 209),

(1010, 100000010, 210);

# # Data Mining

## # Hospital Information and Department Details:

SELECT

Hospital\_Info.HOSPITAL\_NAME,

Hospital\_Info.HOSPITAL\_ADDRESS,

Hospital\_Info.HOSPITAL\_CONTACT,

Department.DEPT\_NAME

FROM

Hospital\_Info

JOIN

Department ON Hospital\_Info.HOSPITAL\_ID = Department.HOSPITAL\_ID;

## # Detailed Patient Information:

SELECT

Patient.PATIENT\_NAME,

Patient.ADMISSION\_DATE,

Patient.DISCHARGE\_DATE,

Patient\_Room.ROOM\_TYPE,

Hospital\_Info.HOSPITAL\_NAME

FROM

Patient

JOIN

Patient\_Room ON Patient.ROOM\_ID = Patient\_Room.ROOM\_ID

JOIN

Hospital\_Info ON Patient.HOSPITAL\_ID = Hospital\_Info.HOSPITAL\_ID;

## # Employee Work Details:

SELECT

Hospital\_Employee.EMP\_FIRST\_NAME,

Hospital\_Employee.EMP\_LAST\_NAME,

Department.DEPT\_NAME,

Office.OFFICE\_BUILDING,

Hospital\_Info.HOSPITAL\_NAME

FROM

Hospital\_Employee

JOIN

Department ON Hospital\_Employee.DEPT\_ID = Department.DEPT\_ID

JOIN

Office ON Hospital\_Employee.OFFICE\_ID = Office.OFFICE\_ID

JOIN

Hospital\_Info ON Hospital\_Employee.HOSPITAL\_ID = Hospital\_Info.HOSPITAL\_ID;

## # Medication and Prescription Details:

SELECT

Patient.PATIENT\_NAME,

Medication.MED\_TYPE,

Medication.MED\_MEASURE,

COUNT(Prescription.PRESCRIPTION\_ID) as Total\_Prescriptions

FROM

Prescription

JOIN

Patient ON Prescription.PATIENT\_ID = Patient.PATIENT\_ID

JOIN

Medication ON Prescription.MED\_ID = Medication.MED\_ID

GROUP BY

Prescription.MED\_ID, Prescription.PATIENT\_ID;