//creating and inserting data and constraints in table using sql for Hospital Management System

//All employees in hospital.

CREATE TABLE EMPLOYEES (

id NUMBER PRIMARY KEY,

first\_name VARCHAR2(50),

middle\_name VARCHAR2(50),

last\_name VARCHAR2(50),

dateofbirth DATE,

joining\_date DATE,

salary NUMBER,

experience NUMBER,

age NUMBER,

qualification VARCHAR2(50)

);

INSERT INTO EMPLOYEES (id, first\_name, middle\_name, last\_name, dateofbirth, joining\_date, salary, experience, age, qualification)

VALUES (1, 'vishal', 'sundar', 'kaira', TO\_DATE('1985-02-12', 'YYYY-MM-DD'), TO\_DATE('2010-05-10', 'YYYY-MM-DD'), 90000, 12, 38, 'Doctor of Medicine');

INSERT INTO EMPLOYEES (id, first\_name, middle\_name, last\_name, dateofbirth, joining\_date, salary, experience, age, qualification)

VALUES (2, 'nidhi', 'sandeep', 'kadam', TO\_DATE('1985-02-12', 'YYYY-MM-DD'), TO\_DATE('2010-05-10', 'YYYY-MM-DD'), 90000, 12, 38, 'mbbs');

INSERT INTO EMPLOYEES (id, first\_name, middle\_name, last\_name, dateofbirth, joining\_date, salary, experience, age, qualification)

VALUES (3, 'nikshita', 'jaya', 'karkera', TO\_DATE('1985-02-12', 'YYYY-MM-DD'), TO\_DATE('2010-05-10', 'YYYY-MM-DD'), 90000, 12, 38, 'dentist');

INSERT INTO EMPLOYEES (id, first\_name, middle\_name, last\_name, dateofbirth, joining\_date, salary, experience, age, qualification)

VALUES(4, 'rishi', 'narendra', 'kewalya', TO\_DATE('1985-02-12', 'YYYY-MM-DD'), TO\_DATE('2010-05-10', 'YYYY-MM-DD'), 90000, 12, 38, 'surgeon');

INSERT INTO EMPLOYEES (id, first\_name, middle\_name, last\_name, dateofbirth, joining\_date, salary, experience, age, qualification)

VALUES (5, 'amolak', 'singh', 'kalsi', TO\_DATE('1985-02-12', 'YYYY-MM-DD'), TO\_DATE('2010-05-10', 'YYYY-MM-DD'), 90000, 12, 38, 'heartexpert');

SELECT \* FROM EMPLOYEES;

//Different departments in hospital

CREATE TABLE DEPARTMENT (

department\_id NUMBER(10) PRIMARY KEY,

department\_name VARCHAR2(100) NOT NULL

);

INSERT INTO DEPARTMENT (department\_id, department\_name)

VALUES (1, 'Cardiology');

INSERT INTO DEPARTMENT (department\_id, department\_name)

VALUES (2, 'Neurology');

INSERT INTO DEPARTMENT (department\_id, department\_name)

VALUES (3, 'Orthopedics');

INSERT INTO DEPARTMENT (department\_id, department\_name)

VALUES (4, 'Oncology');

INSERT INTO DEPARTMENT (department\_id, department\_name)

VALUES (5, 'Pediatrics');

select \* from DEPARTMENT

//Doctors role and id in hospital.

CREATE TABLE DOCTOR (

doctor\_id VARCHAR2(50) PRIMARY KEY,

department\_id NUMBER(10) NOT NULL,

id NUMBER(10) NOT NULL,

qualification VARCHAR2(100) NOT NULL,

CONSTRAINT fk\_dept\_id FOREIGN KEY (department\_id) REFERENCES DEPARTMENT(department\_id),

CONSTRAINT fk\_emp\_id FOREIGN KEY (id) REFERENCES EMPLOYEES(id)

);

INSERT INTO DOCTOR (doctor\_id, department\_id, id, qualification)

VALUES ('D001', 1, 1, 'Doctor of Medicine');

INSERT INTO DOCTOR (doctor\_id, department\_id, id, qualification)

VALUES ('D002', 2, 2, 'Doctor of Osteopathic Medicine');

INSERT INTO DOCTOR (doctor\_id, department\_id, id, qualification)

VALUES ('D003', 3, 3, 'Doctor of Medicine');

INSERT INTO DOCTOR (doctor\_id, department\_id, id, qualification)

VALUES ('D004', 1, 4, 'Doctor of Medicine');

INSERT INTO DOCTOR (doctor\_id, department\_id, id, qualification)

VALUES ('D005', 2, 5, 'Doctor of Osteopathic Medicine');

select \* from DOCTOR

//Patients in hospital

CREATE TABLE PATIENT (

patient\_id NUMBER(10) NOT NULL PRIMARY KEY,

first\_name VARCHAR2(50) NOT NULL,

middle\_name VARCHAR2(50),

last\_name VARCHAR2(50) NOT NULL,

roomno VARCHAR2(10),

dateofbirth DATE,

doctor\_id VARCHAR2(50) NOT NULL,

CONSTRAINT fk\_doc\_id FOREIGN KEY (doctor\_id) REFERENCES DOCTOR(doctor\_id)

);

INSERT INTO PATIENT (patient\_id, first\_name, middle\_name, last\_name, roomno, dateofbirth, doctor\_id)

VALUES (1, 'John', 'A', 'Doe', '101', TO\_DATE('1990-05-15', 'YYYY-MM-DD'), 'D001');

INSERT INTO PATIENT (patient\_id, first\_name, middle\_name, last\_name, roomno, dateofbirth, doctor\_id)

VALUES (2, 'Alice', 'B', 'Smith', '201', TO\_DATE('1985-08-20', 'YYYY-MM-DD'), 'D002');

INSERT INTO PATIENT (patient\_id, first\_name, middle\_name, last\_name, roomno, dateofbirth, doctor\_id)

VALUES (3, 'Michael', 'C', 'Johnson', '301', TO\_DATE('1995-03-10', 'YYYY-MM-DD'), 'D003');

INSERT INTO PATIENT (patient\_id, first\_name, middle\_name, last\_name, roomno, dateofbirth, doctor\_id)

VALUES (4, 'Emma', NULL, 'Davis', '102', TO\_DATE('2000-01-01', 'YYYY-MM-DD'), 'D004');

INSERT INTO PATIENT (patient\_id, first\_name, middle\_name, last\_name, roomno, dateofbirth, doctor\_id)

VALUES (5, 'William', 'E', 'Brown', '202', TO\_DATE('1978-11-30', 'YYYY-MM-DD'), 'D005');

CREATE TABLE MEDICALRECORDS (

record\_id NUMBER(10) PRIMARY KEY,

mediclaim VARCHAR2(100),

medicine VARCHAR2(100),

patient\_id NUMBER(10),

CONSTRAINT fk\_patient\_id FOREIGN KEY (patient\_id) REFERENCES PATIENT(patient\_id)

);

INSERT INTO MEDICALRECORDS (record\_id, mediclaim, medicine, patient\_id) VALUES (1, 'Yes', 'Paracetamol', 1);

INSERT INTO MEDICALRECORDS (record\_id, mediclaim, medicine, patient\_id) VALUES (2, 'No', 'Aspirin', 2);

INSERT INTO MEDICALRECORDS (record\_id, mediclaim, medicine, patient\_id) VALUES (3, 'Yes', 'Amoxicillin', 3);

INSERT INTO MEDICALRECORDS (record\_id, mediclaim, medicine, patient\_id) VALUES (4, 'No', 'Ibuprofen', 4);

INSERT INTO MEDICALRECORDS (record\_id, mediclaim, medicine, patient\_id) VALUES (5, 'Yes', 'Penicillin', 5);

select \* from MEDICALRECORDS

//Nurse in hospital.

CREATE TABLE NURSE (

id NUMBER(10) NOT NULL,

qualification VARCHAR2(100) NOT NULL,

CONSTRAINT fk\_emp2\_id FOREIGN KEY (id) REFERENCES EMPLOYEESS(id)

);

INSERT INTO NURSE (id, qualification) VALUES (3, 'Registered Nurse');

INSERT INTO NURSE (id, qualification) VALUES (2, 'Licensed Practical Nurse');

INSERT INTO NURSE (id, qualification) VALUES (1, 'Certified Nursing Assistant');

INSERT INTO NURSE (id, qualification) VALUES (5, 'Advanced Practice Registered Nurse');

INSERT INTO NURSE (id, qualification) VALUES (4, 'Clinical Nurse Specialist');

desc NURSE

//Patients in Critical Condition in hospital.

CREATE TABLE CRITICAL (

name VARCHAR2(100) NOT NULL,

phoneno VARCHAR2(20) PRIMARY KEY,

address VARCHAR2(200) NOT NULL,

dateofadmit DATE NOT NULL,

patient\_id NUMBER(10) NOT NULL,

CONSTRAINT fk\_patient2\_id FOREIGN KEY (patient\_id) REFERENCES PATIENT(patient\_id)

);

INSERT INTO CRITICAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('John Smith', '1234567890', '123 Main St', '2022-01-01', 1);

INSERT INTO CRITICAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Jane Doe', '0987654321', '456 Elm St', '2022-02-01', 2);

INSERT INTO CRITICAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Bob Johnson', '5551234567', '789 Oak St', '2022-03-01', 3);

INSERT INTO CRITICAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Sarah Williams', '4449876543', '321 Pine St', '2022-04-01', 4);

INSERT INTO CRITICAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Tom Brown', '7771112222', '654 Maple St', '2022-05-01', 5);

desc CRITICAL

//patients in normal condition in hospital

CREATE TABLE NORMAL (

name VARCHAR2(100) NOT NULL,

phoneno VARCHAR2(20) PRIMARY KEY,

address VARCHAR2(200) NOT NULL,

dateofadmit DATE NOT NULL,

patient\_id NUMBER(10) NOT NULL,

CONSTRAINT fk\_patient3\_id FOREIGN KEY (patient\_id) REFERENCES PATIENT(patient\_id)

);

INSERT INTO NORMAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('John Smith', '555-1234', '123 Main St, Anytown, USA', TO\_DATE('2022-02-15', 'YYYY-MM-DD'), 1234567890);

INSERT INTO NORMAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Jane Doe', '555-5678', '456 Elm St, Anytown, USA', TO\_DATE('2022-03-01', 'YYYY-MM-DD'), 2345678901);

INSERT INTO NORMAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Bob Johnson', '555-9876', '789 Oak St, Anytown, USA', TO\_DATE('2022-02-28', 'YYYY-MM-DD'), 3456789012);

INSERT INTO NORMAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Mary Brown', '555-4321', '321 Pine St, Anytown, USA', TO\_DATE('2022-02-20', 'YYYY-MM-DD'), 4567890123);

INSERT INTO NORMAL (name, phoneno, address, dateofadmit, patient\_id)

VALUES ('Tom Wilson', '555-8765', '654 Maple St, Anytown, USA', TO\_DATE('2022-03-10', 'YYYY-MM-DD'), 5678901234);

desc NORMAL