Hospital Management System

Main aim of the project is creating a database for HospitalManagement System.

The Entities are:

1) Patients Entity:

This table will be used for storing and managing the patients information.

-Properties of Patients Entity: PCode,Pname,PDOB Address,Gender,DCode

2) Doctor Entity:

This table will be used for storing and managing the Doctors information.

-Properties of Patients Entity:
DCode, DName, DDOB, Specialization, EmailId, License No
3) Inpatient Entity:

This table will be used for storing and managing the inpatients data.

-Properties of InPatients Entity:

PCode, WardNo, RoomNo, PDOA, PDOD

4) Outpatient Entity:

This table will be used for storing and managing the outpatients data.

-Properties of OutPatients Entity:

PCode, PDO Appointment

5) Room Entity:

This table will be used for storing and managing the room information and assigning of patient in every room.

-Properties of Room Entity:

WardNo ,RoomNo ,RoomType ,Status (A/U)

5) Visitors Entity:

This table will be used for storing and managing the visitors information and maintaining the details of patient whom the visitor visited.

-Properties of Visitors Entity:

Vid, VName, PCode, Date Of Visit

6)TransactionTypes Entity:

This table contains fixed number of records for different types of transactions list available at hospital.

-Properties of TransactionTypes Entity:

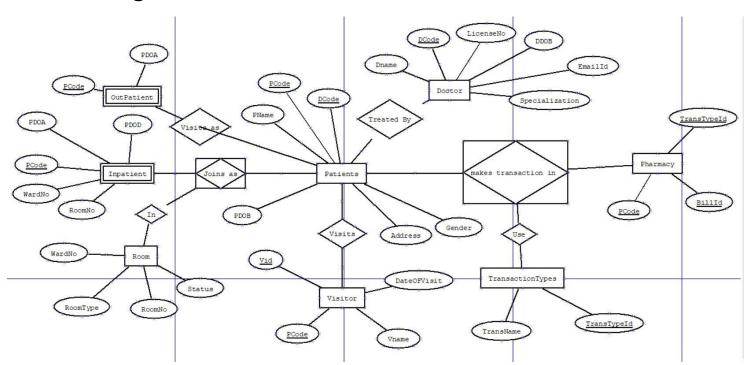
TransTypeid ,TransName

7) Pharmacy Entity:

The Pharmacy table will be used for managing the statement of accounts per patient and for the collection of bills.

-Properties of Pharmacy Entity: BillId,PCode ,TransTypeId

ER Diagram:



SQL For Creating Database:

CREATE TABLE IF NOT EXISTS "Doctor"

("DCode" INTEGER,

"DName" TEXT NOT NULL,

"DDOB" TEXT NOT NULL,

"Specialization" TEXT NOT NULL,

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"EmailId"
                   TEXT NOT NULL,
      "LicenseNo" TEXT NOT NULL,
      PRIMARY KEY("DCode")
);
CREATE TABLE IF NOT EXISTS "Patients"
      ("PCOde"
                   INTEGER,
      "Pname"
                   TEXT NOT NULL,
      "PDOB"
                   REAL NOT NULL,
      "Address"
                   TEXT NOT NULL,
      "Gender"
                   TEXT,
      "DCode"
                   INTEGER,
      PRIMARY KEY("PCOde" AUTOINCREMENT)
);
CREATE TABLE IF NOT EXISTS "Outpatient"
      ("PCode"
                   INTEGER,
      "PDOAppointment" TEXT NOT NULL,
      FOREIGN KEY("PCode") REFERENCES "Patients"("PCOde")
);
CREATE TABLE IF NOT EXISTS "Visitors"
      ("Vid" INTEGER,
      "Vname"
                   TEXT NOT NULL,
      "PCode"
                   INTEGER,
      "DateofVisit" TEXT NOT NULL,
      FOREIGN KEY("PCode") REFERENCES "Patients"("PCOde"),
      PRIMARY KEY("Vid")
);
CREATE TABLE IF NOT EXISTS "TransactionTypes"
      ("TransTypeid" INTEGER,
      "transName" TEXT NOT NULL,
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PRIMARY KEY("TransTypeid")
);
CREATE TABLE IF NOT EXISTS "Pharmacy"
      ("Billid" INTEGER,
      "PCode"
                   INTEGER,
      "TranstypeId" INTEGER,
      FOREIGN KEY("PCode") REFERENCES "Patients"("PCOde"),
      FOREIGN KEY("TranstypeId") REFERENCES "TransactionTypes"("TransTypeid"),
      PRIMARY KEY("Billid")
);
CREATE TABLE IF NOT EXISTS "Room" (
      "WardNo"
                  INTEGER NOT NULL,
      "RoomNo"
                  INTEGER NOT NULL,
      "RoomType" TEXT NOT NULL,
      "Status"
                   TEXT NOT NULL
);
CREATE TABLE IF NOT EXISTS "Inpatient" (
      "PCode"
                   INTEGER,
      "WardNo"
                   INTEGER NOT NULL,
      "RoomNo"
                   INTEGER NOT NULL,
      "PDOA"
                   TEXT NOT NULL,
      "PDOD"
                   TEXT NOT NULL
);
```

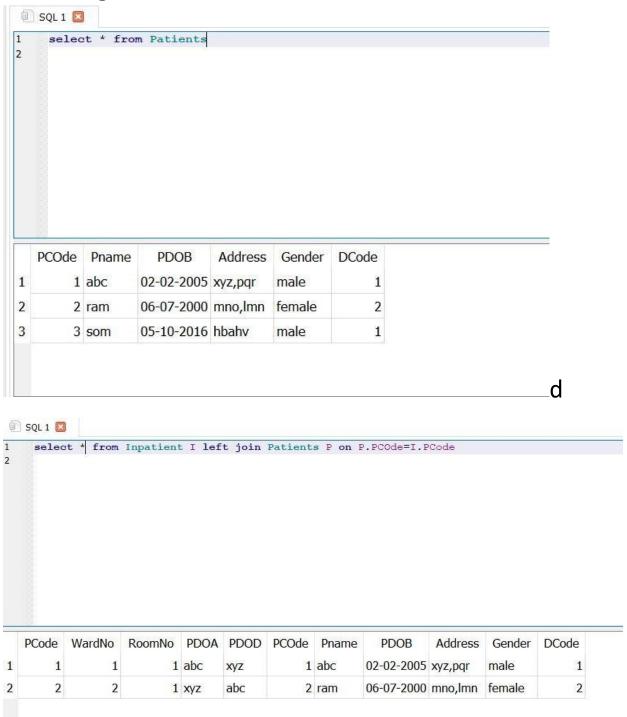
SQL For Inserting Sample Values:

```
INSERT INTO "Doctor"
("DCode","DName","DDOB","Specialization","EmailId","LicenseNo") VALUES
(1,'A','01-02-1980','MBBS','A@gmail.com','12345'),
(2,'B','02-01-1990','MD','B@gmail.com','54321');
```

```
INSERT INTO "Patients"
("PCOde", "Pname", "PDOB", "Address", "Gender", "DCode") VALUES (1, 'abc', '02-
02-2005','xyz,pqr','male',1),
(2,'ram','06-07-2000','mno,lmn','female',2),
(3,'som','05-10-2016','hbahv','male',1);
INSERT INTO "Outpatient" ("PCode", "PDOAppointment") VALUES (3, 'fever');
INSERT INTO "Visitors" ("Vid", "Vname", "PCode", "DateofVisit") VALUES
(1,'zyx',1,'19-07-2021'),
(2,'nmo',2,'20-07-2021');
INSERT INTO "TransactionTypes" ("TransTypeid", "transName") VALUES
(1,'upi'),
(2,'card'),
(3,'cash');
INSERT INTO "Pharmacy" ("Billid", "PCode", "Transtypeld") VALUES (1,1,1),
(2,2,2),
(3,3,3);
INSERT INTO "Room" ("WardNo", "RoomNo", "RoomType", "Status") VALUES(2,1, 'Single', 'U'),
(1,1,'Single','A'),
(1,2,'Double','A');
INSERT INTO "Inpatient" ("PCode","WardNo","RoomNo","PDOA","PDOD")
VALUES (1,1,1,'abc','xyz'),
(2,2,1,'xyz','abc');
```

SQL statements an output for some queries:

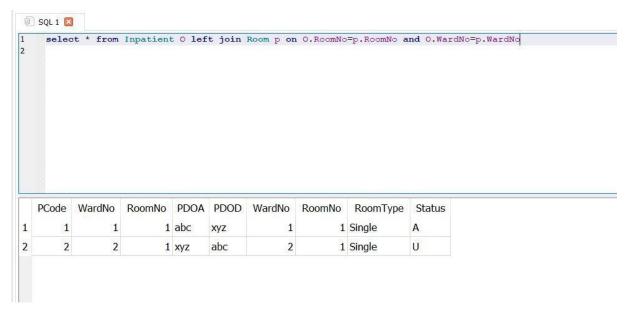
-Selecting all from Patients Table



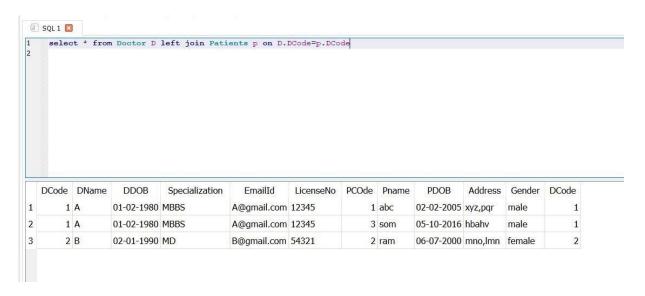
-Selecting inpatients data



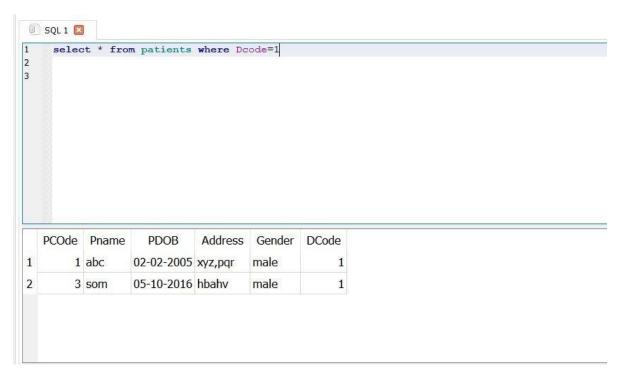
-Selecting outpatients data



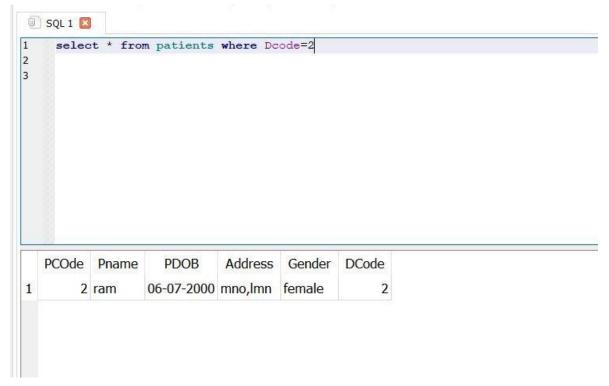
-Selecting Inpatients Room Data



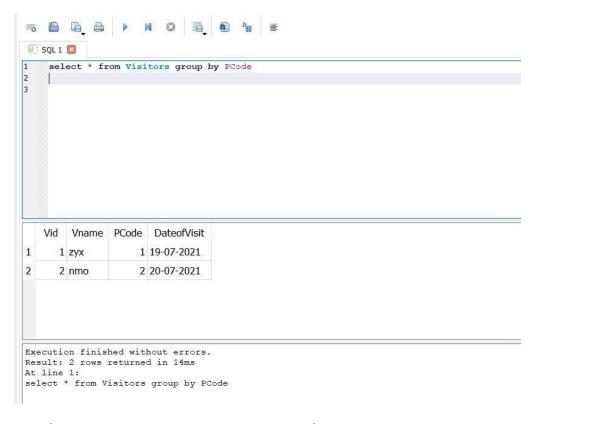
-Selecting Doctor and Patients Data



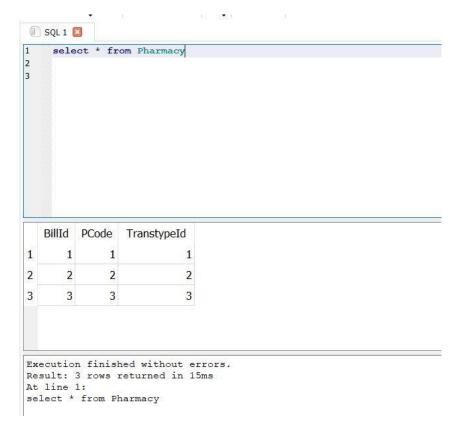
-Selecting patients of doctor with id 1



-Selecting patients of doctor with id 1



-Selecting visitors grouping by Patients



-Selecting pharmacy details



-Selecting total Pharmacy Data Using nested Joins.