DATABASE MANAGEMENT SYSTEMS

Project Abstract & Sql Queries

TITLE: NEW BORN CHILD DATA MANAGEMENT SYSTEM

Prepared and submitted by:

Kaviya.R.V

2019103538

B.E. Computer Science and Engineering.

**Functionalities of the database:**

* To maintain the database of the child born in various hospital.
* To maintain the record of the child.
* This will help us to know the whole details the children born in the city
* To know the Number of hospitals in the city
* To know the number of patients and doctors in hospital
* To know Availability and total number of rooms in hospital
* To maintain the separate records of each and every entities
* This will give complete information of a particular domain when enter that respective domain ID

**Relations used in the Database:**

**1)Mother:**

**Attributes:**

* Mother ID
* Mother Name
* Room number
* Hospital Name
* Age
* DOB
* City Name
* Child ID
* Doctor ID
* Bill ID

**Primary key:**

MotherID

**Foreign key:**

Hospital name(Hospital), Child ID(Child), Doctor ID(Doctor),City Name(City) ,Room Number(Rooms)

**2)Child:**

**Attributes:**

* Child ID
* Mother ID
* Born date
* Room number
* Doctor ID
* Blood group
* Sex
* Weight
* Hospital Name
* City Name

**Primary key:**

Child ID

**Foreign key:**

Hospital Name(Hospital), Doctor ID(Doctor), Room Number(Rooms) ,City Name(City)

**3)Doctor:**

**Attributes:**

* Doctor ID
* Doctor Name
* Hospital Name
* Child ID
* Mother ID
* Case ID
* City Name
* Cabin Number

**Primary Key:**

Doctor ID

**Foreign key:**

Hospital Name(Hospital) ,City Name(City)

**4)Hospital:**

**Attributes:**

* Hospital ID
* Hospital Name
* No of Rooms
* City Name
* Area
* No of Doctors
* No of Patients
* Ambulance Service Number
* Hospital Dean Name

**Primary key:**

Hospital ID, Hospital Name

**Foreign key:**

City Name(City)

**5)City:**

**Attributes:**

* City Name
* Hospital Name
* Hospital ID
* City Code
* No of Hospitals

**Primary key:**

City Name

**6)Bills:**

**Attributes:**

* Bill ID
* Bill Amount
* Mother ID
* Doctor Fee
* Medicinal Expenses
* Room Fee
* Tax Amount

**Primary key:**

Bill ID

**Foreign key:**

MotherID(Mother)

**7)Rooms:**

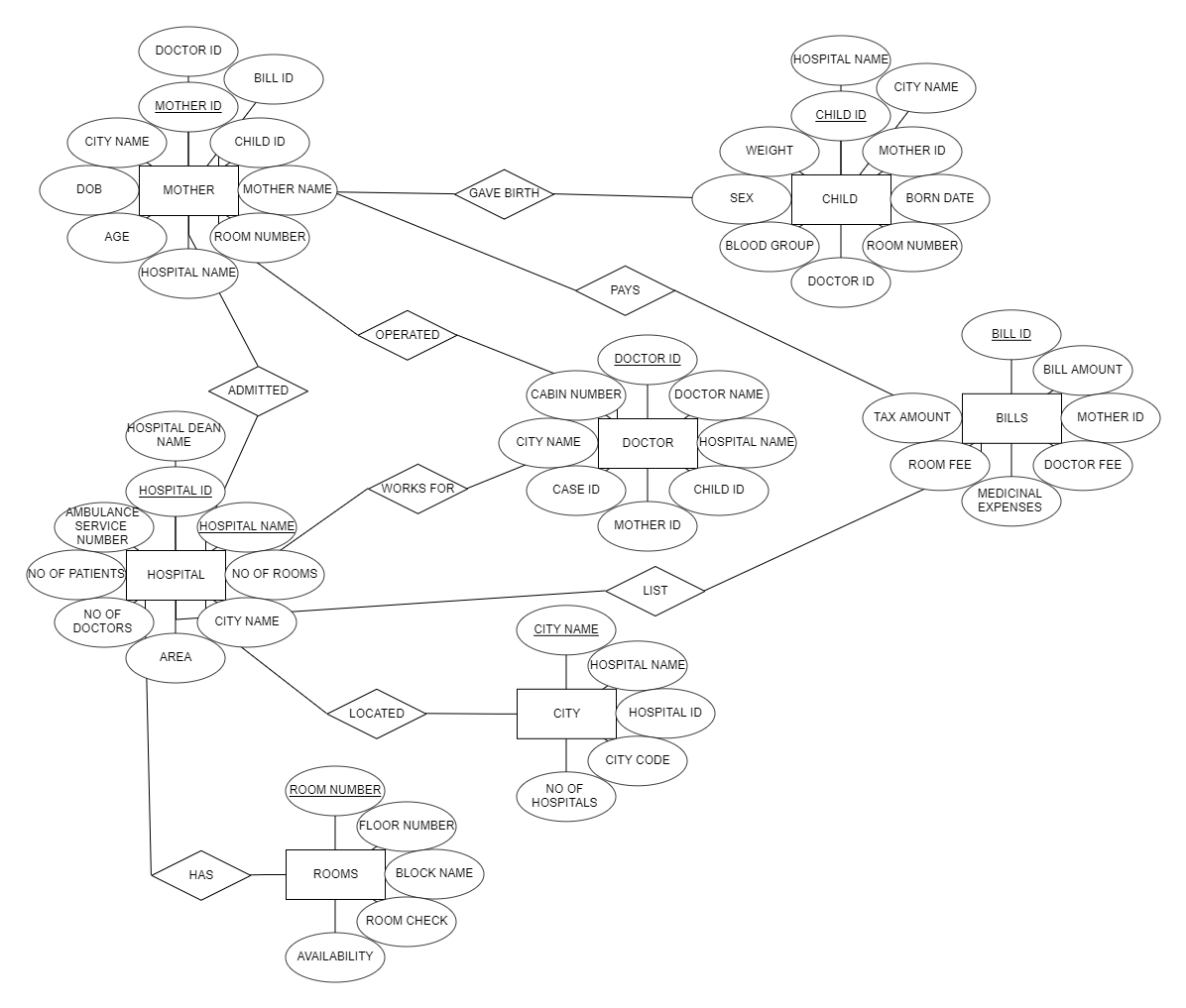
**Attributes:**

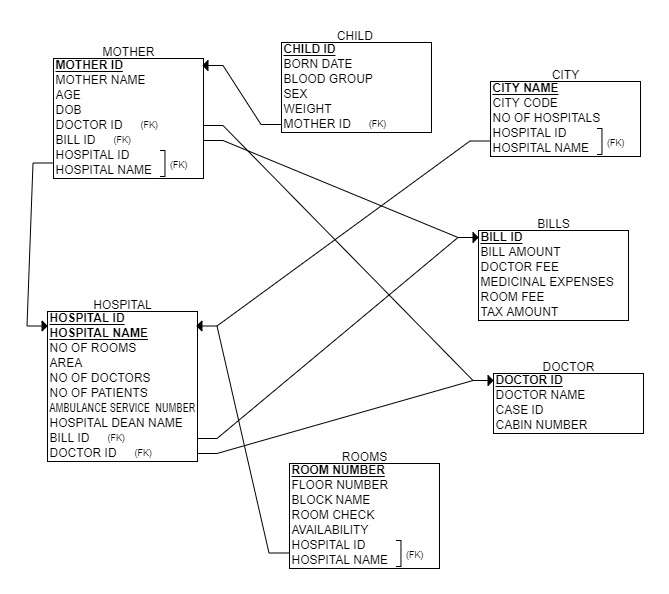
* Room Number
* Floor Number
* Block Name
* Room Check
* Availability

**Primary key:**

Room Number

All attributes in all the tables are non-transitively determined by the Primary key(Super key) of the respective tables. Hence the tables in this relation are in **BOYCE-CODD NORMAL FORM.**





**SQL Queries:**

**1.BILLS:**

**CREATE TABLE `bills` (**

**`BillID` int NOT NULL,**

**`BillAmount` int NOT NULL,**

**`MotherID\_4` int NOT NULL,**

**`DoctorFee` int NOT NULL,**

**`MedicinalExpenses` int NOT NULL,**

**`RoomFee` int NOT NULL,**

**`TaxAmount` int NOT NULL,**

**PRIMARY KEY (`BillID`),**

**KEY `MotherID\_4\_idx` (`MotherID\_4`),**

**CONSTRAINT `MotherID\_4` FOREIGN KEY (`MotherID\_4`) REFERENCES `mother` (`MotherID`)**

**)**

**2.CHILD:**

**CONSTRAINT `RoomNumber\_3` FOREIGN KEY (`RoomNumber\_3`) REFERENCES `rooms` (`RoomNumber`)CREATE TABLE `child` (**

**`ChildID` int NOT NULL,**

**`MotherID\_2` int NOT NULL,**

**`BornDate` date NOT NULL,**

**`RoomNumber\_3` int NOT NULL,**

**`DoctorID\_3` int NOT NULL,**

**`BloodGroup` varchar(45) NOT NULL,**

**`Sex` varchar(45) NOT NULL,**

**`Weight` varchar(45) NOT NULL,**

**`HospitalName\_3` varchar(45) NOT NULL,**

**`CityName\_3` varchar(45) NOT NULL,**

**PRIMARY KEY (`ChildID`),**

**KEY `DoctorID\_3\_idx` (`DoctorID\_3`),**

**KEY `RoomNumber\_3\_idx` (`RoomNumber\_3`),**

**KEY `CityName\_3\_idx` (`CityName\_3`),**

**KEY `HospitalName\_3\_idx` (`HospitalName\_3`),**

**CONSTRAINT `CityName\_3` FOREIGN KEY (`CityName\_3`) REFERENCES `city` (`CityName`),**

**CONSTRAINT `DoctorID\_3` FOREIGN KEY (`DoctorID\_3`) REFERENCES `doctor` (`DoctorID`),**

**CONSTRAINT `HospitalName\_3` FOREIGN KEY (`HospitalName\_3`) REFERENCES `hospital` (`HospitalName`),**

**)**

**3.CITY:**

**CREATE TABLE `city` (**

**`CityName` varchar(45) NOT NULL,**

**`CityCode` int NOT NULL,**

**`NoOfHospital` int NOT NULL,**

**PRIMARY KEY (`CityName`)**

**)**

**4.DOCTOR:**

**CREATE TABLE `doctor` (**

**`DoctorID` int NOT NULL,**

**`DoctorName` varchar(45) NOT NULL,**

**`HospitalName\_8` varchar(45) NOT NULL,**

**`CaseID` int NOT NULL,**

**`CityName\_4` varchar(45) NOT NULL,**

**`CabinNumber` int NOT NULL,**

**PRIMARY KEY (`DoctorID`),**

**KEY `HospitalName\_8\_idx` (`HospitalName\_8`),**

**KEY `CityName\_4\_idx` (`CityName\_4`),**

**CONSTRAINT `CityName\_4` FOREIGN KEY (`CityName\_4`) REFERENCES `city` (`CityName`),**

**CONSTRAINT `HospitalName\_8` FOREIGN KEY (`HospitalName\_8`) REFERENCES `hospital` (`HospitalName`)**

**)**

**5.HOSPITAL:**

**CREATE TABLE `hospital` (**

**`HospitalID` int NOT NULL,**

**`HospitalName` varchar(45) NOT NULL,**

**`NoOfRooms` int NOT NULL,**

**`CityName\_5` varchar(45) NOT NULL,**

**`Area` varchar(45) NOT NULL,**

**`NoOfDoctors` int NOT NULL,**

**`NoOfPatients` int NOT NULL,**

**`AmbulanceSerNumber` int NOT NULL,**

**`HospitalDeanName` varchar(45) NOT NULL,**

**PRIMARY KEY (`HospitalID`,`HospitalName`),**

**KEY `CityName\_5\_idx` (`CityName\_5`),**

**KEY `HospitalName` (`HospitalName`),**

**KEY `HospitalID` (`HospitalID`),**

**CONSTRAINT `CityName\_5` FOREIGN KEY (`CityName\_5`) REFERENCES `city` (`CityName`)**

**)**

**6.MOTHER:**

**CREATE TABLE `mother` (**

**`MotherID` int NOT NULL,**

**`MotherName` varchar(45) NOT NULL,**

**`Age` int NOT NULL,**

**`HospitalName\_22` varchar(45) NOT NULL,**

**`DOB` date NOT NULL,**

**`CityName\_2` varchar(45) NOT NULL,**

**`ChildID\_2` int NOT NULL,**

**`DoctorID\_2` int NOT NULL,**

**`BillID\_2` int NOT NULL,**

**`RoomNumber\_2` int NOT NULL,**

**PRIMARY KEY (`MotherID`),**

**KEY `HospitalName\_2\_idx` (`HospitalName\_22`),**

**KEY `HospitalName\_22\_idx` (`HospitalName\_22`),**

**KEY `ChildID\_2\_idx` (`ChildID\_2`),**

**KEY `DoctorID\_2\_idx` (`DoctorID\_2`),**

**KEY `CityName\_2\_idx` (`CityName\_2`),**

**KEY `RoomNumber\_2\_idx` (`RoomNumber\_2`),**

**CONSTRAINT `ChildID\_2` FOREIGN KEY (`ChildID\_2`) REFERENCES `child` (`ChildID`),**

**CONSTRAINT `CityName\_2` FOREIGN KEY (`CityName\_2`) REFERENCES `city` (`CityName`),**

**CONSTRAINT `DoctorID\_2` FOREIGN KEY (`DoctorID\_2`) REFERENCES `doctor` (`DoctorID`),**

**CONSTRAINT `HospitalName\_22` FOREIGN KEY (`HospitalName\_22`) REFERENCES `hospital` (`HospitalName`),**

**CONSTRAINT `RoomNumber\_2` FOREIGN KEY (`RoomNumber\_2`) REFERENCES `rooms` (`RoomNumber`)**

**)**

**7.ROOMS:**

**CREATE TABLE `rooms` (**

**`RoomNumber` int NOT NULL,**

**`FloorNumber` int NOT NULL,**

**`BlockName` v$sql="SELECT \* FROM bills WHERE BillID ='$dib'";**

**archar(45) NOT NULL,**

**`RoomCheck` varchar(45) NOT NULL,**

**`RoomAvailability` varchar(45) NOT NULL,**

**PRIMARY KEY (`RoomNumber`)**

**)**

**$sql=SELECT \* FROM bills WHERE BillID ='$dib'";**

**$sql="SELECT \* FROM city WHERE CityID ='$dib'";**

**$sql="SELECT \* FROM hospital WHERE HospitalID ='$dib'";**

**$sql="SELECT \* FROM rooms RoomID ='$dib'";**

**$sql="SELECT \* FROM doctor WHER DoctorID ='$dib'";**

**$sql="SELECT \* FROM child WHERE ChildID ='$dib”;**