**DBMS Project**

**DB for Hospital**

Problem Statement: Hospitals which currently use manual system for the management and maintenance of critical information deal with numerous paper forms. Often information on the form is incomplete or does not follow management standards. Forms can be easily misplaced and lost permanently. Multiple copies can exist for the same form which can lead to inconsistency in the data.

A significant part of the operation in any hospital involves the acquisition, management and timely retrieval of information. This information includes patient, doctor, operating theatre and various other facilities. All of this information must be managed efficiently so that an institution utilizes resources effectively.

The Hospital Management System is for any hospital to replace their existing manual paper based system so that the new system will control all the information in efficient and cost effective manner.

Users of the system

1. Accountant: Accountant will update all the billing information of the patient.

2. Pharmacy: It will keep an update on all the medicines.

3. Doctor: Doctors will keep an update on their respective patients.

4. Lab Assistant: Will keep an update on any equipment/medicine that doctor wants.

5. Nurse: Will take care of patient that has been admitted to hospital.

Define the entities

1. Patient

2. Doctor

3. Operation Theatre

4. Room

5. Accountant

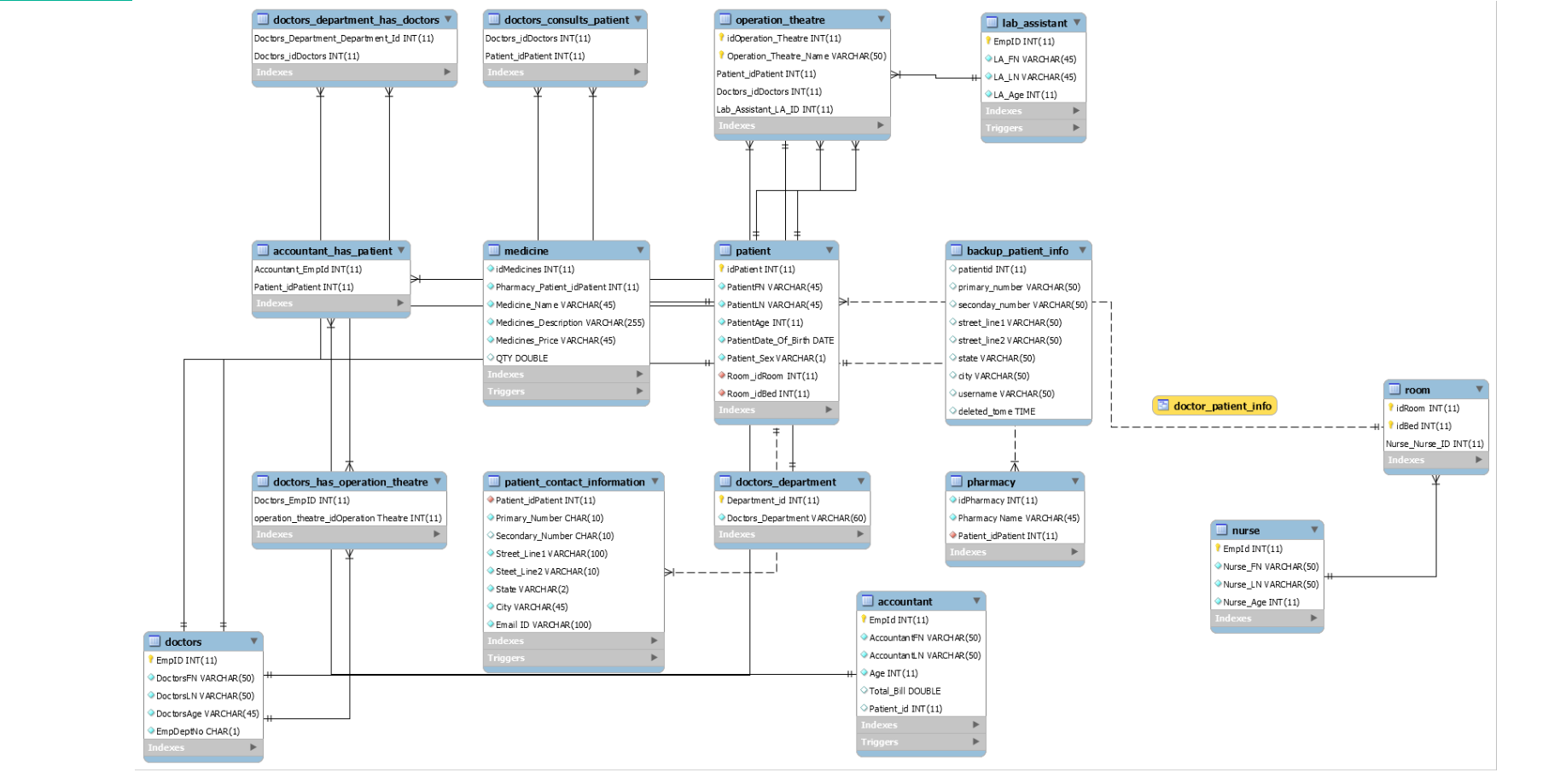
6. Lab Assistant

7. Nurse

8. Cleaning and Maintenance team

9. Pharmacy

ER Diagram:



**Stored Procedures:**

1. To list all the Medicine a patient has purchased.

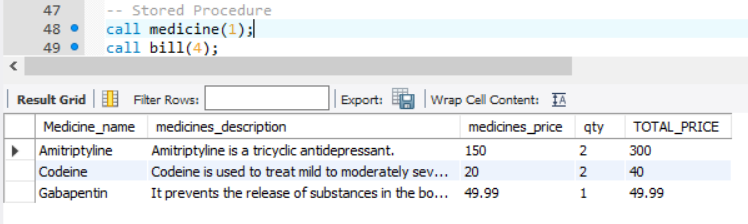
CREATE DEFINER=`root`@`localhost` PROCEDURE `Medicine`(in PatientId varchar(10))

BEGIN

select Medicine\_name,medicines\_description,medicines\_price, qty, (medicines\_price\*qty) AS TOTAL\_PRICE from medicine where pharmacy\_patient\_idPatient =

(select patient\_idPatient from pharmacy where patient\_idPatient = (select idpatient from patient where idpatient = PatientId));

END



2. To view the total bill of the patient

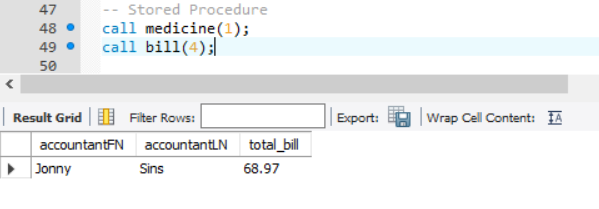
CREATE DEFINER=`root`@`localhost` PROCEDURE `bill`(in patientID varchar(5))

BEGIN

select accountantFN,accountantLN,total\_bill from accountant where EMPid =

(select accountant\_EMPid from accountant\_has\_patient where Patient\_idPatient = (select idpatient from patient where idpatient = patientID));

END



**Views:**

CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `hospital`.`doctor\_patient\_info` AS

SELECT

`d`.`DoctorsFN` AS `DoctorsFN`,

`d`.`DoctorsLN` AS `DoctorsLN`,

`ddd`.`Doctors\_Department` AS `Doctors\_Department`,

`p`.`PatientFN` AS `PatientFN`,

`p`.`PatientLN` AS `PatientLN`,

`p`.`PatientAge` AS `patientage`,

`p`.`Patient\_Sex` AS `patient\_sex`,

`p`.`Room\_idRoom` AS `room\_idroom`

FROM

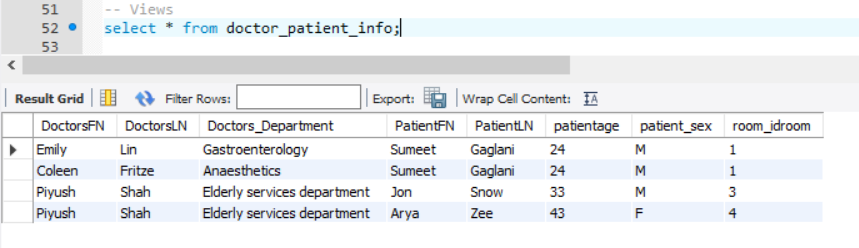
((((`hospital`.`doctors` `d`

JOIN `hospital`.`doctors\_department\_has\_doctors` `dd` ON ((`d`.`EmpID` = `dd`.`Doctors\_idDoctors`)))

JOIN `hospital`.`doctors\_department` `ddd` ON ((`dd`.`Doctors\_Department\_Department\_Id` = `ddd`.`Department\_id`)))

JOIN `hospital`.`doctors\_consults\_patient` `dcp` ON ((`d`.`EmpID` = `dcp`.`Doctors\_idDoctors`)))

JOIN `hospital`.`patient` `p` ON ((`dcp`.`Patient\_idPatient` = `p`.`idPatient`)))



**Triggers:**

**To update tables related to Primary Key ROOMID**

CREATE DEFINER=`root`@`localhost` TRIGGER `lab\_assistant\_AFTER\_UPDATE` AFTER UPDATE ON `lab\_assistant` FOR EACH ROW BEGIN

update operation\_theatre

set Lab\_Assistant\_LA\_ID = new.EmpID

where Lab\_Assistant\_LA\_ID = old.EmpID;

END

2. To create a backup of deleted rows from Patient contact information

CREATE DEFINER=`root`@`localhost` TRIGGER `patient\_contact\_information\_BEFORE\_DELETE` BEFORE DELETE ON `patient\_contact\_information` FOR EACH ROW BEGIN

insert into backup\_patient\_info values (old.patient\_idPatient,old.Primary\_Number,old.Secondary\_Number,old.Street\_Line1,old.Steet\_Line2,old.State,old.city,user(),now());

END

**Appendix Section**

-- MySQL dump 10.13 Distrib 8.0.12, for Win64 (x86\_64)

--

-- Host: 127.0.0.1 Database: hospital

-- ------------------------------------------------------

-- Server version 8.0.12

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

SET NAMES utf8 ;

/\*!40103 SET @OLD\_TIME\_ZONE=@@TIME\_ZONE \*/;

/\*!40103 SET TIME\_ZONE='+00:00' \*/;

/\*!40014 SET @OLD\_UNIQUE\_CHECKS=@@UNIQUE\_CHECKS, UNIQUE\_CHECKS=0 \*/;

/\*!40014 SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0 \*/;

/\*!40101 SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='NO\_AUTO\_VALUE\_ON\_ZERO' \*/;

/\*!40111 SET @OLD\_SQL\_NOTES=@@SQL\_NOTES, SQL\_NOTES=0 \*/;

--

-- Table structure for table `accountant`

--

DROP TABLE IF EXISTS `accountant`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `accountant` (

`EmpId` int(11) NOT NULL,

`AccountantFN` varchar(50) NOT NULL,

`AccountantLN` varchar(50) NOT NULL,

`Age` int(11) NOT NULL,

`Total\_Bill` double DEFAULT NULL,

`Patient\_id` int(11) DEFAULT NULL,

PRIMARY KEY (`EmpId`),

UNIQUE KEY `EmpId\_UNIQUE` (`EmpId`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `accountant`

--

LOCK TABLES `accountant` WRITE;

/\*!40000 ALTER TABLE `accountant` DISABLE KEYS \*/;

INSERT INTO `accountant` VALUES (1,'Katherine','Bugrara',46,NULL,2),(2,'Patrick','Simmons',52,399.99,1),(3,'Jonny ','Sins',32,68.97,4),(4,'Michael','Schwa',39,NULL,NULL),(5,'Racheal','Green',27,NULL,5);

/\*!40000 ALTER TABLE `accountant` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8mb4 \*/ ;

/\*!50003 SET character\_set\_results = utf8mb4 \*/ ;

/\*!50003 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = 'STRICT\_TRANS\_TABLES,NO\_ENGINE\_SUBSTITUTION' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER `accountant\_BEFORE\_DELETE` BEFORE DELETE ON `accountant` FOR EACH ROW BEGIN

insert into back\_up

values(old.patient\_id,old.total\_bill,user(), now());

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `accountant\_has\_patient`

--

DROP TABLE IF EXISTS `accountant\_has\_patient`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `accountant\_has\_patient` (

`Accountant\_EmpId` int(11) NOT NULL,

`Patient\_idPatient` int(11) NOT NULL,

PRIMARY KEY (`Accountant\_EmpId`,`Patient\_idPatient`),

KEY `fk\_Accountant\_has\_Patient\_Patient1\_idx` (`Patient\_idPatient`),

KEY `fk\_Accountant\_has\_Patient\_Accountant1\_idx` (`Accountant\_EmpId`),

CONSTRAINT `fk\_Accountant\_has\_Patient\_Accountant1` FOREIGN KEY (`Accountant\_EmpId`) REFERENCES `accountant` (`empid`),

CONSTRAINT `fk\_Accountant\_has\_Patient\_Patient1` FOREIGN KEY (`Patient\_idPatient`) REFERENCES `patient` (`idpatient`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `accountant\_has\_patient`

--

LOCK TABLES `accountant\_has\_patient` WRITE;

/\*!40000 ALTER TABLE `accountant\_has\_patient` DISABLE KEYS \*/;

INSERT INTO `accountant\_has\_patient` VALUES (2,1),(1,2),(2,2),(3,4),(5,5);

/\*!40000 ALTER TABLE `accountant\_has\_patient` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `backup\_patient\_info`

--

DROP TABLE IF EXISTS `backup\_patient\_info`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `backup\_patient\_info` (

`patientid` int(11) DEFAULT NULL,

`primary\_number` varchar(50) DEFAULT NULL,

`seconday\_number` varchar(50) DEFAULT NULL,

`street\_line1` varchar(50) DEFAULT NULL,

`street\_line2` varchar(50) DEFAULT NULL,

`state` varchar(50) DEFAULT NULL,

`city` varchar(50) DEFAULT NULL,

`username` varchar(50) DEFAULT NULL,

`deleted\_tome` time DEFAULT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `backup\_patient\_info`

--

LOCK TABLES `backup\_patient\_info` WRITE;

/\*!40000 ALTER TABLE `backup\_patient\_info` DISABLE KEYS \*/;

INSERT INTO `backup\_patient\_info` VALUES (5,'9856323524','526412987','9 Mass Ave','Apt 3R','TX','Houston','root@localhost','09:26:48');

/\*!40000 ALTER TABLE `backup\_patient\_info` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Temporary view structure for view `doctor\_patient\_info`

--

DROP TABLE IF EXISTS `doctor\_patient\_info`;

/\*!50001 DROP VIEW IF EXISTS `doctor\_patient\_info`\*/;

SET @saved\_cs\_client = @@character\_set\_client;

SET character\_set\_client = utf8mb4;

/\*!50001 CREATE VIEW `doctor\_patient\_info` AS SELECT

1 AS `DoctorsFN`,

1 AS `DoctorsLN`,

1 AS `Doctors\_Department`,

1 AS `PatientFN`,

1 AS `PatientLN`,

1 AS `patientage`,

1 AS `patient\_sex`,

1 AS `room\_idroom`\*/;

SET character\_set\_client = @saved\_cs\_client;

--

-- Table structure for table `doctors`

--

DROP TABLE IF EXISTS `doctors`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `doctors` (

`EmpID` int(11) NOT NULL AUTO\_INCREMENT,

`DoctorsFN` varchar(50) NOT NULL,

`DoctorsLN` varchar(50) NOT NULL,

`DoctorsAge` varchar(45) NOT NULL,

`EmpDeptNo` char(1) NOT NULL,

PRIMARY KEY (`EmpID`)

) ENGINE=InnoDB AUTO\_INCREMENT=17 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `doctors`

--

LOCK TABLES `doctors` WRITE;

/\*!40000 ALTER TABLE `doctors` DISABLE KEYS \*/;

INSERT INTO `doctors` VALUES (1,'Piyush','Shah','29','1'),(3,'Emily','Lin','28','1'),(4,'Coleen','Fritze','36','1'),(5,'Jay','Mehta','31','1'),(6,'Smeet','Somaiya','52','1'),(7,'Shai','Hope','34','1'),(8,'Akshay','Sawant','62','1'),(9,'Steve','Rogers','45','1'),(10,'Tony ','Stark','32','1'),(11,'Sonia','Turner','28','1'),(12,'Massie','Williams','36','1'),(13,'Tory','Johra','50','1'),(14,'Emilia ','Clarke','29','1'),(15,'Lita','Rollins','25','1'),(16,'Lita','Rollins','25','1');

/\*!40000 ALTER TABLE `doctors` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `doctors\_consults\_patient`

--

DROP TABLE IF EXISTS `doctors\_consults\_patient`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `doctors\_consults\_patient` (

`Doctors\_idDoctors` int(11) NOT NULL,

`Patient\_idPatient` int(11) NOT NULL,

PRIMARY KEY (`Doctors\_idDoctors`,`Patient\_idPatient`),

KEY `fk\_Doctors\_has\_Patient\_Patient1\_idx` (`Patient\_idPatient`),

KEY `fk\_Doctors\_has\_Patient\_Doctors\_idx` (`Doctors\_idDoctors`),

CONSTRAINT `fk\_Doctors\_has\_Patient\_Doctors` FOREIGN KEY (`Doctors\_idDoctors`) REFERENCES `doctors` (`empid`),

CONSTRAINT `fk\_Doctors\_has\_Patient\_Patient1` FOREIGN KEY (`Patient\_idPatient`) REFERENCES `patient` (`idpatient`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `doctors\_consults\_patient`

--

LOCK TABLES `doctors\_consults\_patient` WRITE;

/\*!40000 ALTER TABLE `doctors\_consults\_patient` DISABLE KEYS \*/;

INSERT INTO `doctors\_consults\_patient` VALUES (3,1),(4,1),(1,4),(1,5),(5,5);

/\*!40000 ALTER TABLE `doctors\_consults\_patient` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `doctors\_department`

--

DROP TABLE IF EXISTS `doctors\_department`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `doctors\_department` (

`Department\_id` int(11) NOT NULL,

`Doctors\_Department` varchar(60) NOT NULL,

PRIMARY KEY (`Department\_id`),

UNIQUE KEY `Doctors Department\_UNIQUE` (`Doctors\_Department`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `doctors\_department`

--

LOCK TABLES `doctors\_department` WRITE;

/\*!40000 ALTER TABLE `doctors\_department` DISABLE KEYS \*/;

INSERT INTO `doctors\_department` VALUES (1,'Anaesthetics'),(2,'Cardiology'),(3,'Chaplaincy'),(4,'Diagnostic imaging'),(5,'Discharge lounge'),(6,'Ear nose and throat'),(7,'Elderly services department'),(8,'Gastroenterology');

/\*!40000 ALTER TABLE `doctors\_department` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `doctors\_department\_has\_doctors`

--

DROP TABLE IF EXISTS `doctors\_department\_has\_doctors`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `doctors\_department\_has\_doctors` (

`Doctors\_Department\_Department\_Id` int(11) NOT NULL,

`Doctors\_idDoctors` int(11) NOT NULL,

PRIMARY KEY (`Doctors\_idDoctors`,`Doctors\_Department\_Department\_Id`),

KEY `fk\_Doctors Department\_has\_Doctors\_Doctors1\_idx` (`Doctors\_idDoctors`),

KEY `fk\_Doctors Department\_has\_Doctors\_Doctors Department1\_idx` (`Doctors\_Department\_Department\_Id`),

CONSTRAINT `fk\_Doctors Department\_has\_Doctors\_Doctors Department1` FOREIGN KEY (`Doctors\_Department\_Department\_Id`) REFERENCES `doctors\_department` (`department\_id`),

CONSTRAINT `fk\_Doctors Department\_has\_Doctors\_Doctors1` FOREIGN KEY (`Doctors\_idDoctors`) REFERENCES `doctors` (`empid`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `doctors\_department\_has\_doctors`

--

LOCK TABLES `doctors\_department\_has\_doctors` WRITE;

/\*!40000 ALTER TABLE `doctors\_department\_has\_doctors` DISABLE KEYS \*/;

INSERT INTO `doctors\_department\_has\_doctors` VALUES (7,1),(8,3),(1,4),(2,6),(6,7),(3,8),(5,9);

/\*!40000 ALTER TABLE `doctors\_department\_has\_doctors` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `doctors\_has\_operation\_theatre`

--

DROP TABLE IF EXISTS `doctors\_has\_operation\_theatre`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `doctors\_has\_operation\_theatre` (

`Doctors\_EmpID` int(11) NOT NULL,

`operation\_theatre\_idOperation Theatre` int(11) NOT NULL,

PRIMARY KEY (`Doctors\_EmpID`,`operation\_theatre\_idOperation Theatre`),

KEY `fk\_Doctors\_has\_Operation\_Theatre\_Operation Theatre1\_idx` (`operation\_theatre\_idOperation Theatre`),

KEY `fk\_Doctors\_has\_Operation Theatre\_Doctors1\_idx` (`Doctors\_EmpID`),

CONSTRAINT `fk\_Doctors\_has\_Operation Theatre\_Doctors1` FOREIGN KEY (`Doctors\_EmpID`) REFERENCES `doctors` (`empid`),

CONSTRAINT `fk\_Doctors\_has\_Operation Theatre\_Operation Theatre1` FOREIGN KEY (`operation\_theatre\_idOperation Theatre`) REFERENCES `operation\_theatre` (`idOperation\_Theatre`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `doctors\_has\_operation\_theatre`

--

LOCK TABLES `doctors\_has\_operation\_theatre` WRITE;

/\*!40000 ALTER TABLE `doctors\_has\_operation\_theatre` DISABLE KEYS \*/;

INSERT INTO `doctors\_has\_operation\_theatre` VALUES (1,2),(4,4),(3,5),(3,6);

/\*!40000 ALTER TABLE `doctors\_has\_operation\_theatre` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `lab\_assistant`

--

DROP TABLE IF EXISTS `lab\_assistant`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `lab\_assistant` (

`EmpID` int(11) NOT NULL,

`LA\_FN` varchar(45) NOT NULL,

`LA\_LN` varchar(45) NOT NULL,

`LA\_Age` int(11) NOT NULL,

PRIMARY KEY (`EmpID`),

UNIQUE KEY `EmpID\_UNIQUE` (`EmpID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `lab\_assistant`

--

LOCK TABLES `lab\_assistant` WRITE;

/\*!40000 ALTER TABLE `lab\_assistant` DISABLE KEYS \*/;

INSERT INTO `lab\_assistant` VALUES (2,'Yusuf','Bugrara',39),(3,'Kal','Somaiya',49),(4,'Mrunal','Ghorpade',24),(6,'Sailee','Bhagat',25),(7,'Smith','Obzek',30);

/\*!40000 ALTER TABLE `lab\_assistant` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8mb4 \*/ ;

/\*!50003 SET character\_set\_results = utf8mb4 \*/ ;

/\*!50003 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = 'STRICT\_TRANS\_TABLES,NO\_ENGINE\_SUBSTITUTION' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER `lab\_assistant\_AFTER\_UPDATE` AFTER UPDATE ON `lab\_assistant` FOR EACH ROW BEGIN

update operation\_theatre

set Lab\_Assistant\_LA\_ID = new.EmpID

where Lab\_Assistant\_LA\_ID = old.EmpID;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `medicine`

--

DROP TABLE IF EXISTS `medicine`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `medicine` (

`idMedicines` int(11) NOT NULL,

`Pharmacy\_Patient\_idPatient` int(11) NOT NULL,

`Medicine\_Name` varchar(45) NOT NULL,

`Medicines\_Description` varchar(255) NOT NULL,

`Medicines\_Price` varchar(45) NOT NULL,

`QTY` double DEFAULT NULL,

UNIQUE KEY `idMedicines\_UNIQUE` (`idMedicines`),

UNIQUE KEY `Medicine\_Name\_UNIQUE` (`Medicine\_Name`),

UNIQUE KEY `Medicines\_Description\_UNIQUE` (`Medicines\_Description`),

UNIQUE KEY `Medicines\_Price\_UNIQUE` (`Medicines\_Price`),

KEY `fk\_Medicines\_Pharmacy1\_idx` (`Pharmacy\_Patient\_idPatient`,`Medicine\_Name`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `medicine`

--

LOCK TABLES `medicine` WRITE;

/\*!40000 ALTER TABLE `medicine` DISABLE KEYS \*/;

INSERT INTO `medicine` VALUES (1,1,'Amitriptyline','Amitriptyline is a tricyclic antidepressant.','150',2),(2,1,'Codeine','Codeine is used to treat mild to moderately severe pain.','20',2),(3,4,'Lyrica','Lyrica is used to treat pain caused by fibromyalgia, or nerve pain in people with diabetes.','22.99',3),(4,1,'Gabapentin','It prevents the release of substances in the body that cause inflammation. It also suppresses the immune system.','49.99',1);

/\*!40000 ALTER TABLE `medicine` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8mb4 \*/ ;

/\*!50003 SET character\_set\_results = utf8mb4 \*/ ;

/\*!50003 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = 'STRICT\_TRANS\_TABLES,NO\_ENGINE\_SUBSTITUTION' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER `medicine\_AFTER\_INSERT` AFTER INSERT ON `medicine` FOR EACH ROW BEGIN

UPDATE accountant

SET Total\_Bill = NEW.Medicines\_Price\*NEW.qty

WHERE Patient\_id = NEW.Pharmacy\_Patient\_idPatient;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `nurse`

--

DROP TABLE IF EXISTS `nurse`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `nurse` (

`EmpId` int(11) NOT NULL,

`Nurse\_FN` varchar(50) NOT NULL,

`Nurse\_LN` varchar(50) NOT NULL,

`Nurse\_Age` int(11) NOT NULL,

PRIMARY KEY (`EmpId`),

UNIQUE KEY `EmpId\_UNIQUE` (`EmpId`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `nurse`

--

LOCK TABLES `nurse` WRITE;

/\*!40000 ALTER TABLE `nurse` DISABLE KEYS \*/;

INSERT INTO `nurse` VALUES (1,'Pooja','Dharmadhikari',26),(2,'Apurva','Desai',24),(3,'Caitlin','Stark',29),(4,'Hayley','Lyons',25),(5,'Molly','Evans',27);

/\*!40000 ALTER TABLE `nurse` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `operation\_theatre`

--

DROP TABLE IF EXISTS `operation\_theatre`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `operation\_theatre` (

`idOperation\_Theatre` int(11) NOT NULL AUTO\_INCREMENT,

`Operation\_Theatre\_Name` varchar(50) NOT NULL,

`Patient\_idPatient` int(11) NOT NULL,

`Doctors\_idDoctors` int(11) NOT NULL,

`Lab\_Assistant\_LA\_ID` int(11) NOT NULL,

PRIMARY KEY (`idOperation\_Theatre`,`Patient\_idPatient`,`Doctors\_idDoctors`,`Lab\_Assistant\_LA\_ID`,`Operation\_Theatre\_Name`),

UNIQUE KEY `Operation\_Theatre\_Name\_UNIQUE` (`Operation\_Theatre\_Name`),

KEY `fk\_Operation Theatre\_Lab Assistant1\_idx` (`Lab\_Assistant\_LA\_ID`),

KEY `fk\_Operation Theatre\_Doctors1\_idx` (`Doctors\_idDoctors`),

KEY `fk\_Operation\_Theatre\_Patient1` (`Patient\_idPatient`),

CONSTRAINT `fk\_Operation Theatre\_Doctors1` FOREIGN KEY (`Doctors\_idDoctors`) REFERENCES `doctors` (`empid`),

CONSTRAINT `fk\_Operation Theatre\_Patient1` FOREIGN KEY (`Patient\_idPatient`) REFERENCES `patient` (`idpatient`),

CONSTRAINT `fk\_Operation\_Theatre\_Lab Assistant1` FOREIGN KEY (`Lab\_Assistant\_LA\_ID`) REFERENCES `lab\_assistant` (`empid`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `fk\_Operation\_Theatre\_Patient1` FOREIGN KEY (`Patient\_idPatient`) REFERENCES `patient` (`idpatient`) ON UPDATE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=7 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `operation\_theatre`

--

LOCK TABLES `operation\_theatre` WRITE;

/\*!40000 ALTER TABLE `operation\_theatre` DISABLE KEYS \*/;

INSERT INTO `operation\_theatre` VALUES (4,'MRI 1',4,4,2),(6,'MRI 3',2,3,3),(2,'ICU 2',2,1,4),(5,'MRI 2',5,3,7);

/\*!40000 ALTER TABLE `operation\_theatre` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `patient`

--

DROP TABLE IF EXISTS `patient`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `patient` (

`idPatient` int(11) NOT NULL AUTO\_INCREMENT,

`PatientFN` varchar(45) NOT NULL,

`PatientLN` varchar(45) NOT NULL,

`PatientAge` int(11) NOT NULL,

`PatientDate\_Of\_Birth` date NOT NULL,

`Patient\_Sex` varchar(1) NOT NULL COMMENT 'M: Male\nF: Female',

`Room\_idRoom` int(11) NOT NULL,

`Room\_idBed` int(11) NOT NULL,

PRIMARY KEY (`idPatient`),

KEY `fk\_Patient\_Room1\_idx` (`Room\_idRoom`,`Room\_idBed`),

CONSTRAINT `fk\_Patient\_Room1` FOREIGN KEY (`Room\_idRoom`, `Room\_idBed`) REFERENCES `room` (`idroom`, `idbed`) ON UPDATE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `patient`

--

LOCK TABLES `patient` WRITE;

/\*!40000 ALTER TABLE `patient` DISABLE KEYS \*/;

INSERT INTO `patient` VALUES (1,'Sumeet','Gaglani',24,'1994-07-25','M',1,1),(2,'Nikunj','Lad',25,'1993-02-02','M',1,2),(4,'Jon','Snow',33,'1985-01-12','M',3,3),(5,'Arya','Zee',43,'1975-12-03','F',4,4);

/\*!40000 ALTER TABLE `patient` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `patient\_contact\_information`

--

DROP TABLE IF EXISTS `patient\_contact\_information`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `patient\_contact\_information` (

`Patient\_idPatient` int(11) NOT NULL,

`Primary\_Number` char(10) NOT NULL,

`Secondary\_Number` char(10) DEFAULT NULL,

`Street\_Line1` varchar(100) NOT NULL,

`Steet\_Line2` varchar(10) NOT NULL,

`State` varchar(2) NOT NULL,

`City` varchar(45) NOT NULL,

`Email ID` varchar(100) NOT NULL,

UNIQUE KEY `Primary Number\_UNIQUE` (`Primary\_Number`),

UNIQUE KEY `Email ID\_UNIQUE` (`Email ID`),

UNIQUE KEY `Secondary Number\_UNIQUE` (`Secondary\_Number`),

KEY `fk\_Patient\_Contact\_Information\_Patient1` (`Patient\_idPatient`),

CONSTRAINT `fk\_Patient\_Contact\_Information\_Patient1` FOREIGN KEY (`Patient\_idPatient`) REFERENCES `patient` (`idpatient`) ON DELETE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `patient\_contact\_information`

--

LOCK TABLES `patient\_contact\_information` WRITE;

/\*!40000 ALTER TABLE `patient\_contact\_information` DISABLE KEYS \*/;

INSERT INTO `patient\_contact\_information` VALUES (4,'5698523147','1596324872','5 Colombus Ave','Apt 2L','CA','Los Angelos','j254.snow@gmail.com'),(2,'8579995252','3594126480','24 Copley Square','Apt 1','MA','Boston','lad.n@hotmail.com'),(1,'857999661','1235695846','2 Quensberry Street','Apt 15','MA','Boston','gaglani.s@gmail.com');

/\*!40000 ALTER TABLE `patient\_contact\_information` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8mb4 \*/ ;

/\*!50003 SET character\_set\_results = utf8mb4 \*/ ;

/\*!50003 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = 'STRICT\_TRANS\_TABLES,NO\_ENGINE\_SUBSTITUTION' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER `patient\_contact\_information\_BEFORE\_DELETE` BEFORE DELETE ON `patient\_contact\_information` FOR EACH ROW BEGIN

insert into backup\_patient\_info values (old.patient\_idPatient,old.Primary\_Number,old.Secondary\_Number,old.Street\_Line1,old.Steet\_Line2,old.State,old.city,user(),now());

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `pharmacy`

--

DROP TABLE IF EXISTS `pharmacy`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `pharmacy` (

`idPharmacy` int(11) NOT NULL DEFAULT '1',

`Pharmacy Name` varchar(45) NOT NULL DEFAULT 'CVS',

`Patient\_idPatient` int(11) NOT NULL,

UNIQUE KEY `Patient\_idPatient` (`Patient\_idPatient`),

CONSTRAINT `fk\_Pharmacy\_Patient1` FOREIGN KEY (`Patient\_idPatient`) REFERENCES `patient` (`idpatient`) ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `pharmacy`

--

LOCK TABLES `pharmacy` WRITE;

/\*!40000 ALTER TABLE `pharmacy` DISABLE KEYS \*/;

INSERT INTO `pharmacy` VALUES (1,'CVS',1),(1,'CVS',2),(1,'CVS',4),(1,'CVS',5);

/\*!40000 ALTER TABLE `pharmacy` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `room`

--

DROP TABLE IF EXISTS `room`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

SET character\_set\_client = utf8mb4 ;

CREATE TABLE `room` (

`idRoom` int(11) NOT NULL AUTO\_INCREMENT,

`idBed` int(11) NOT NULL,

`Nurse\_Nurse\_ID` int(11) NOT NULL,

PRIMARY KEY (`idRoom`,`idBed`,`Nurse\_Nurse\_ID`),

UNIQUE KEY `idBed\_UNIQUE` (`idBed`),

KEY `fk\_Room\_Nurse1\_idx` (`Nurse\_Nurse\_ID`),

CONSTRAINT `fk\_Room\_Nurse1` FOREIGN KEY (`Nurse\_Nurse\_ID`) REFERENCES `nurse` (`empid`)

) ENGINE=InnoDB AUTO\_INCREMENT=7 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `room`

--

LOCK TABLES `room` WRITE;

/\*!40000 ALTER TABLE `room` DISABLE KEYS \*/;

INSERT INTO `room` VALUES (1,1,1),(1,2,1),(3,3,2),(4,4,3),(5,5,3);

/\*!40000 ALTER TABLE `room` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Dumping routines for database 'hospital'

--

/\*!50003 DROP PROCEDURE IF EXISTS `bill` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8mb4 \*/ ;

/\*!50003 SET character\_set\_results = utf8mb4 \*/ ;

/\*!50003 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = 'STRICT\_TRANS\_TABLES,NO\_ENGINE\_SUBSTITUTION' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `bill`(in patientID varchar(5))

BEGIN

select accountantFN,accountantLN,total\_bill from accountant where EMPid =

(select accountant\_EMPid from accountant\_has\_patient where Patient\_idPatient = (select idpatient from patient where idpatient = patientID));

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `Medicine` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8mb4 \*/ ;

/\*!50003 SET character\_set\_results = utf8mb4 \*/ ;

/\*!50003 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = 'STRICT\_TRANS\_TABLES,NO\_ENGINE\_SUBSTITUTION' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `Medicine`(in PatientId varchar(10))

BEGIN

select Medicine\_name,medicines\_description,medicines\_price, qty, (medicines\_price\*qty) AS TOTAL\_PRICE from medicine where pharmacy\_patient\_idPatient =

(select patient\_idPatient from pharmacy where patient\_idPatient = (select idpatient from patient where idpatient = PatientId));

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `patient\_info\_bySTATE` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8mb4 \*/ ;

/\*!50003 SET character\_set\_results = utf8mb4 \*/ ;

/\*!50003 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = 'STRICT\_TRANS\_TABLES,NO\_ENGINE\_SUBSTITUTION' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `patient\_info\_bySTATE`(in State varchar(5))

BEGIN

select Primary\_Number, Secondary\_Number, Street\_Line1, Steet\_Line2, State, City from patient\_contact\_information where state IN (select state from patient\_contact\_information where state = State);

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Final view structure for view `doctor\_patient\_info`

--

/\*!50001 DROP VIEW IF EXISTS `doctor\_patient\_info`\*/;

/\*!50001 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!50001 SET @saved\_cs\_results = @@character\_set\_results \*/;

/\*!50001 SET @saved\_col\_connection = @@collation\_connection \*/;

/\*!50001 SET character\_set\_client = utf8mb4 \*/;

/\*!50001 SET character\_set\_results = utf8mb4 \*/;

/\*!50001 SET collation\_connection = utf8mb4\_0900\_ai\_ci \*/;

/\*!50001 CREATE ALGORITHM=UNDEFINED \*/

/\*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER \*/

/\*!50001 VIEW `doctor\_patient\_info` AS select `d`.`DoctorsFN` AS `DoctorsFN`,`d`.`DoctorsLN` AS `DoctorsLN`,`ddd`.`Doctors\_Department` AS `Doctors\_Department`,`p`.`PatientFN` AS `PatientFN`,`p`.`PatientLN` AS `PatientLN`,`p`.`PatientAge` AS `patientage`,`p`.`Patient\_Sex` AS `patient\_sex`,`p`.`Room\_idRoom` AS `room\_idroom` from ((((`doctors` `d` join `doctors\_department\_has\_doctors` `dd` on((`d`.`EmpID` = `dd`.`Doctors\_idDoctors`))) join `doctors\_department` `ddd` on((`dd`.`Doctors\_Department\_Department\_Id` = `ddd`.`Department\_id`))) join `doctors\_consults\_patient` `dcp` on((`d`.`EmpID` = `dcp`.`Doctors\_idDoctors`))) join `patient` `p` on((`dcp`.`Patient\_idPatient` = `p`.`idPatient`))) \*/;

/\*!50001 SET character\_set\_client = @saved\_cs\_client \*/;

/\*!50001 SET character\_set\_results = @saved\_cs\_results \*/;

/\*!50001 SET collation\_connection = @saved\_col\_connection \*/;

/\*!40103 SET TIME\_ZONE=@OLD\_TIME\_ZONE \*/;

/\*!40101 SET SQL\_MODE=@OLD\_SQL\_MODE \*/;

/\*!40014 SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS \*/;

/\*!40014 SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS \*/;

/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

/\*!40111 SET SQL\_NOTES=@OLD\_SQL\_NOTES \*/;

-- Dump completed on 2018-12-13 10:50:19