

# DBMS MINI PROJECT

## **HOSPITAL MANAGEMENT SYSTEM**

Submitted By:

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**V Semester Section A**

## Short Description and Scope of the Project

Hospital Management System is **a system enabling hospitals to manage information and data related to all aspects of healthcare – processes, providers, patients, and more**, which in turn ensures that processes are completed swiftly and effectively.

In this Hospital Management system I have created multiple tables to store information about patients, doctors, nurses, medicines, bills, treatments, etc. Using this system makes tracking and keeping records very time efficient and quick to search too.

This project has vast scope and can be extended to many more tables and functions to automate many tasks in hospital management and make it easy for the hospital staff to Keep records.

### **Languages used:**

mySQL

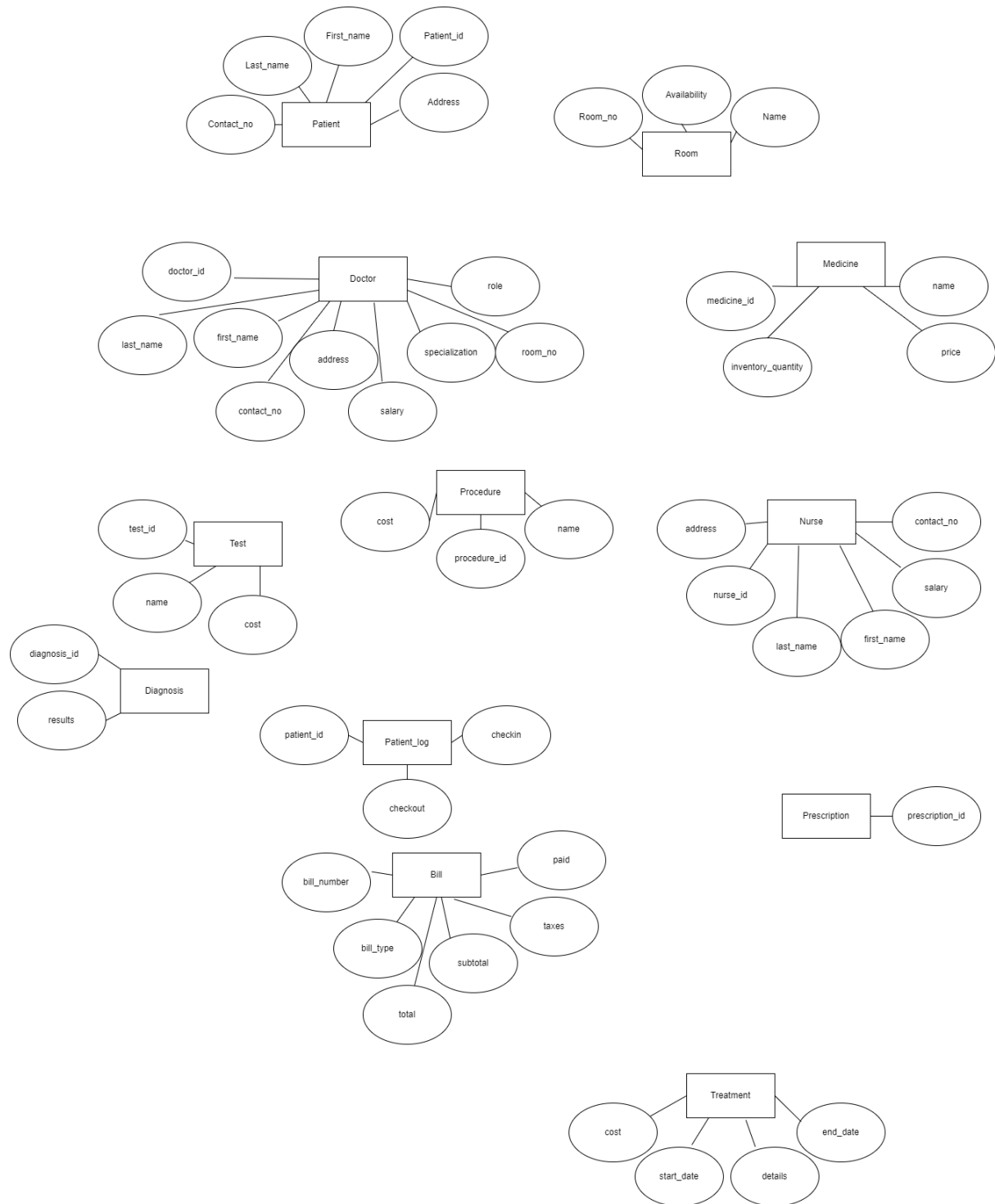
Python

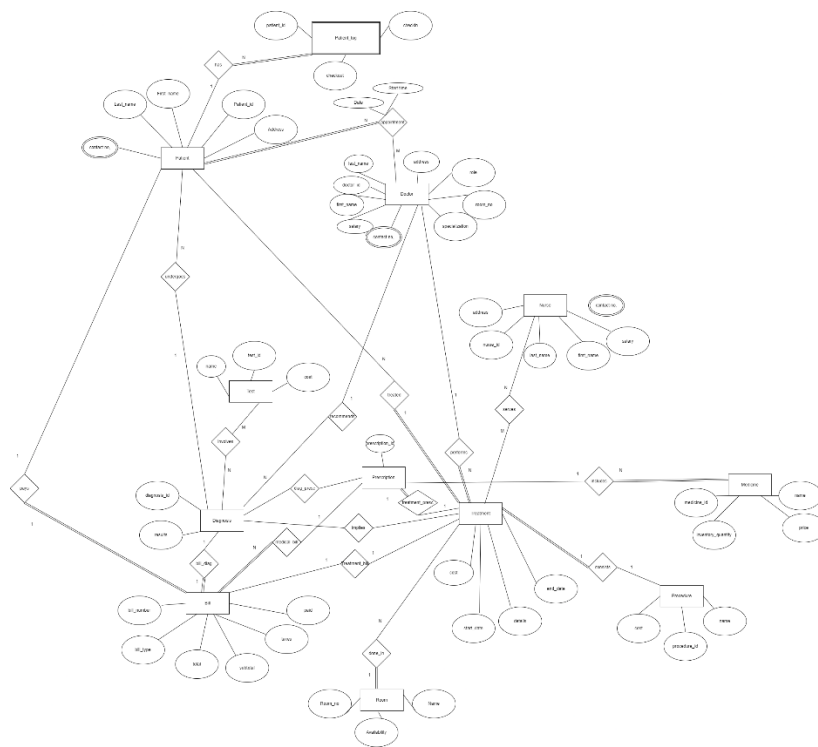
Streamlit used for python and mysql connectivity to make front end.

## ER Diagram

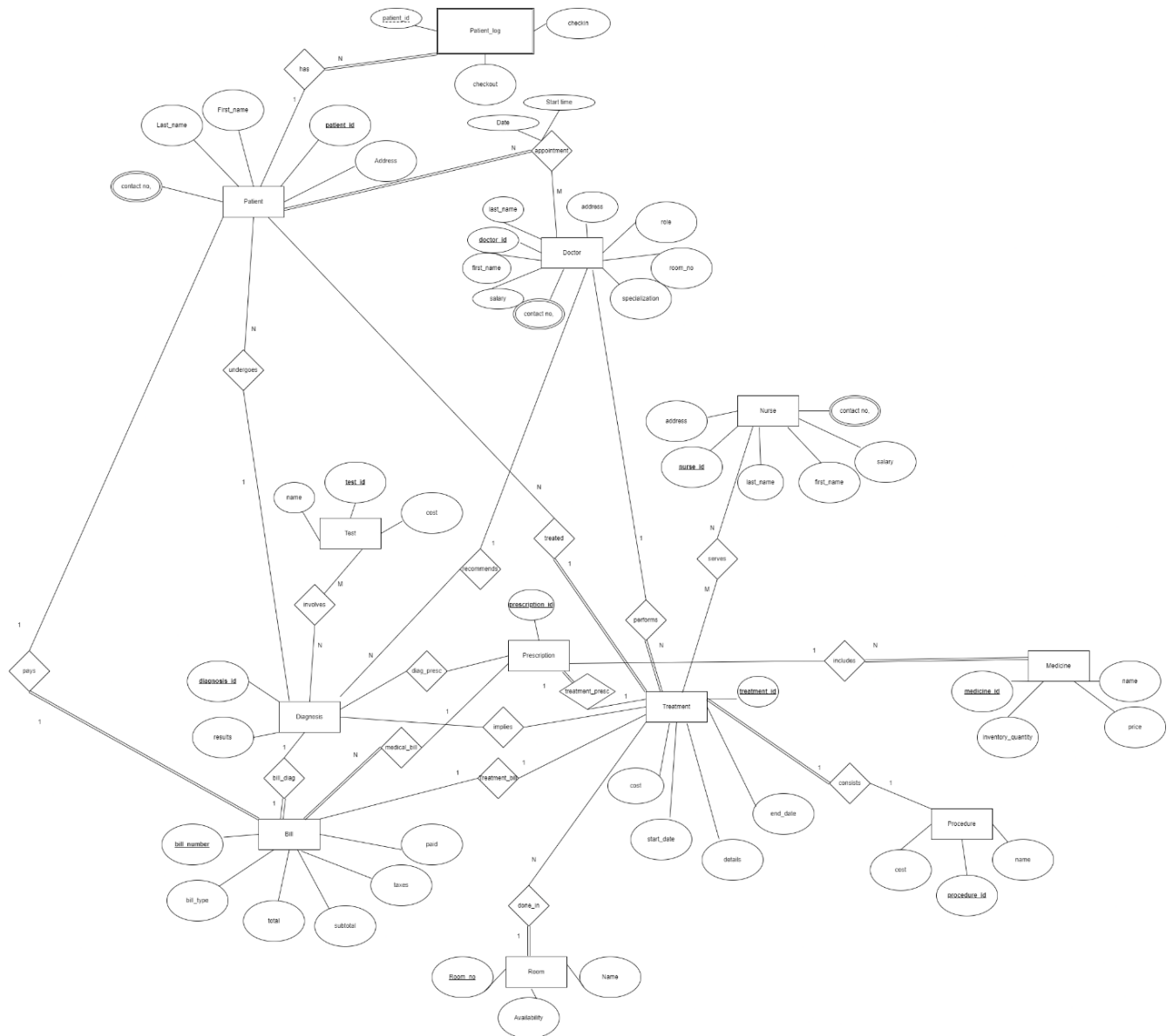
Making ER Diagram:

Entities:

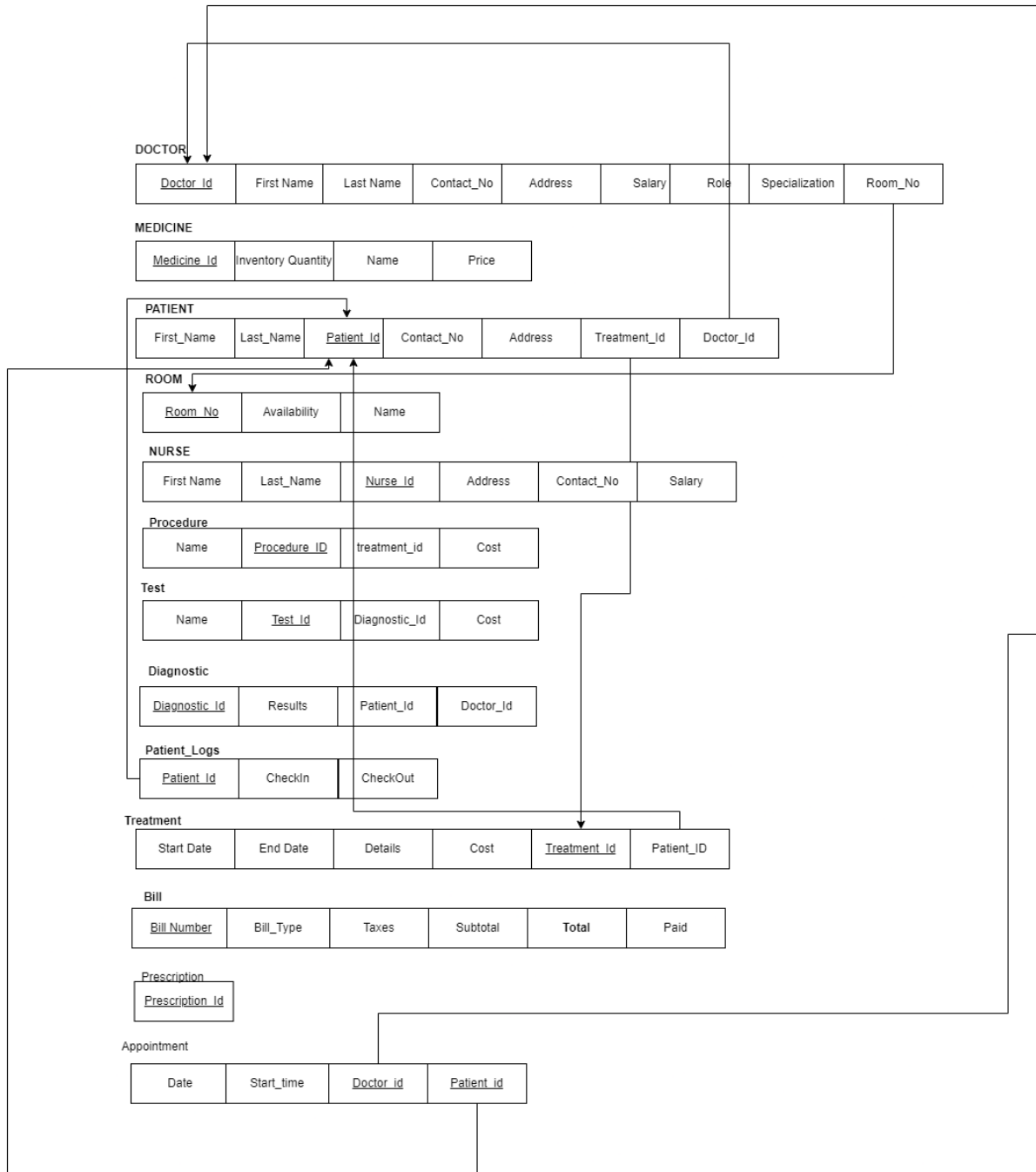




# ER DIAGRAM:



# Relational Schema:



# DDL COMMANDS

-- Entity Sets

-- 1. Patient Entity

```
DROP TABLE IF EXISTS `Patient`;
CREATE TABLE `Patient` (
  `patient_id` int NOT NULL,
  `first_name` varchar(30),
  `last_name` varchar(30),
  `contact_no` varchar(15) UNIQUE,
  `address` varchar(100),
  PRIMARY KEY (`patient_id`)
);
```

-- 2. Room Entity

```
DROP TABLE IF EXISTS `Room`;
CREATE TABLE `Room` (
  `room_no` int NOT NULL,
  `name` varchar(30),
  `availability` bit,
  PRIMARY KEY (`room_no`)
);
```

-- 3. Doctor Entity

```
DROP TABLE IF EXISTS `Doctor`;
CREATE TABLE `Doctor` (
  `doctor_id` int NOT NULL AUTO_INCREMENT,
  `first_name` varchar(30),
  `last_name` varchar(30),
  `contact_no` varchar(15) UNIQUE,
  `address` varchar(50),
```

```

        `salary` decimal(10, 2),
        `specialization` varchar(30),
        `role` varchar(30),
        `room_no` int NOT NULL,
        PRIMARY KEY (`doctor_id`),
        FOREIGN KEY (`room_no`) REFERENCES `Room` ( `room_no` ) ON DELETE CASCADE
    );

```

-- 4. Medicine Entity

```

DROP TABLE IF EXISTS `Medicine`;
CREATE TABLE `Medicine` (
    `medicine_id` int NOT NULL AUTO_INCREMENT,
    `inventory_quantity` int,
    `name` varchar(30),
    `price` decimal(10, 2),
    PRIMARY KEY (`medicine_id`)
);

```

-- 5. Nurse entity

```

DROP TABLE IF EXISTS `Nurse`;
CREATE TABLE `Nurse` (
    `nurse_id` int NOT NULL AUTO_INCREMENT,
    `first_name` varchar(30),
    `last_name` varchar(30),
    `contact_no` varchar(15) UNIQUE,
    `address` varchar(100),
    `salary` decimal(10, 2),
    PRIMARY KEY (`nurse_id`)
);

```

-- 6. Bill Entity

```

DROP TABLE IF EXISTS `Bill`;
CREATE TABLE `Bill` (
    `bill_number` int NOT NULL,
    `bill_type` int,
    `total` decimal(10, 2),
    `subtotal` decimal(10, 2),
    `taxes` decimal(10, 2),
    `paid` int,

```



```

        PRIMARY KEY (`bill_number`)
    );

-- 8. Prescription Entity

DROP TABLE IF EXISTS `Prescription`;
CREATE TABLE `Prescription` (
    `prescription_id` int NOT NULL,
    PRIMARY KEY (`prescription_id`)
);

-- 9. Diagnosis Entity

DROP TABLE IF EXISTS `Diagnosis`;
CREATE TABLE `Diagnosis` (
    `diagnosis_id` int NOT NULL,
    `results` varchar(150),
    PRIMARY KEY (`diagnosis_id`)
);

-- 10. Treatment Entity

DROP TABLE IF EXISTS `Treatment`;
CREATE TABLE `Treatment` (
    `treatment_id` int NOT NULL,
    `start_date` Date,
    `end_date` Date,
    `details` varchar(255),
    PRIMARY KEY (`treatment_id`)
);

-- 11. Test Entity

DROP TABLE IF EXISTS `Test`;
CREATE TABLE `Test` (
    `test_id` int NOT NULL AUTO_INCREMENT,
    `name` varchar(50),
    `cost` decimal(10, 2),
    PRIMARY KEY (`test_id`)
);

-- 12. Procedure Entity

```

```
DROP TABLE IF EXISTS `Procedure`;
```

```
CREATE TABLE `Procedure` (  
    `procedure_id` int NOT NULL AUTO_INCREMENT,  
    `name` varchar(50),  
    `cost` decimal(10, 2),  
    PRIMARY KEY (`procedure_id`)  
);
```

```
-- 13. Patient Log Entity
```

```
DROP TABLE IF EXISTS `Patient_Log`;
```

```
CREATE TABLE `Patient_Log` (  
    `patient_id` int NOT NULL,  
    `checkin` Datetime,  
    `checkout` Datetime,  
    PRIMARY KEY (`patient_id`, `checkin`),  
    FOREIGN KEY (`patient_id`) REFERENCES `Patient` ( `patient_id` ) ON DELETE CASCADE  
);
```

```
-- Relationship Sets
```

```
-- 1. Treated
```

```
DROP TABLE IF EXISTS `Treated`;
```

```
CREATE TABLE `Treated` (  
    `patient_id` int,  
    `treatment_id` int NOT NULL,  
    PRIMARY KEY (`treatment_id`),  
    FOREIGN KEY (`patient_id`) REFERENCES `Patient` (`patient_id`) ON DELETE CASCADE,  
    FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE  
);
```

```
-- 2. Performs
```

```
DROP TABLE IF EXISTS `Performs`;
```

```
CREATE TABLE `Performs` (  
    `doctor_id` int NOT NULL,  
    `treatment_id` int NOT NULL,  
    PRIMARY KEY (`treatment_id`, `doctor_id`),  
    FOREIGN KEY (`doctor_id`) REFERENCES `Doctor` ( `doctor_id` ) ON DELETE CASCADE,  
    FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` ( `treatment_id` ) ON DELETE CASCADE
```

```
);
```

```
-- 3. Done_In
```

```
DROP TABLE IF EXISTS `Done_In`;
```

```
CREATE TABLE `Done_In` (  
    `treatment_id` int NOT NULL,  
    `room_no` int NOT NULL,  
    PRIMARY KEY (`treatment_id`),  
    FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE,  
    FOREIGN KEY (`room_no`) REFERENCES `Room` (`room_no`) ON DELETE CASCADE  
);
```

```
-- 4. Procedure_Treatment
```

```
DROP TABLE IF EXISTS `Consists`;
```

```
CREATE TABLE `Consists` (  
    `procedure_id` int NOT NULL,  
    `treatment_id` int NOT NULL,  
    PRIMARY KEY (`procedure_id`, `treatment_id`),  
    FOREIGN KEY (`procedure_id`) REFERENCES `Procedure` (`procedure_id`) ON DELETE CASCADE,  
    FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE  
);
```

```
-- 5. Undergoes
```

```
DROP TABLE IF EXISTS `Undergoes`;
```

```
CREATE TABLE `Undergoes` (  
    `patient_id` int,  
    `diagnosis_id` int NOT NULL,  
    PRIMARY KEY (`diagnosis_id`),  
    FOREIGN KEY (`patient_id`) REFERENCES `Patient` (`patient_id`) ON DELETE CASCADE,  
    FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` (`diagnosis_id`) ON DELETE CASCADE  
);
```

```
-- 6. Recommends
```

```
DROP TABLE IF EXISTS `Recommends`;
```

```
CREATE TABLE `Recommends` (  
    `doctor_id` int NOT NULL,  
    `diagnosis_id` int NOT NULL,  
    PRIMARY KEY (`diagnosis_id`),
```

```

FOREIGN KEY (`doctor_id`) REFERENCES `Doctor` ( `doctor_id` ) ON DELETE CASCADE,
FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` ( `diagnosis_id` ) ON DELETE CASCADE

);

-- 7. Involves

DROP TABLE IF EXISTS `Involves`;
CREATE TABLE `Involves` (
  `diagnosis_id` int NOT NULL,
  `test_id` int NOT NULL,
  `results` varchar(100),
  PRIMARY KEY (`diagnosis_id`, `test_id`),
  FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` ( `diagnosis_id` ) ON DELETE CASCADE,
  FOREIGN KEY (`test_id`) REFERENCES `Test` ( `test_id` ) ON DELETE CASCADE
);

-- 8. Treatment_Prescription

DROP TABLE IF EXISTS `Treatment_Presc`;
CREATE TABLE `Treatment_Presc` (
  `treatment_id` int NOT NULL,
  `prescription_id` int NOT NULL,
  PRIMARY KEY (`treatment_id`),
  FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` ( `prescription_id` ) ON DELETE CASCADE,
  FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` ( `treatment_id` ) ON DELETE CASCADE
);

-- 9. Diag_Presc

DROP TABLE IF EXISTS `Diag_Presc`;
CREATE TABLE `Diag_Presc` (
  `prescription_id` int,
  `diagnosis_id` int NOT NULL,
  PRIMARY KEY (`diagnosis_id`),
  FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` ( `prescription_id` ) ON DELETE CASCADE,
  FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` ( `diagnosis_id` ) ON DELETE CASCADE
);

-- 10. Includes

DROP TABLE IF EXISTS `Includes`;

```

```
CREATE TABLE `Includes` (  
    `medicine_id` int NOT NULL,  
    `prescription_id` int NOT NULL,  
    `unit` int DEFAULT 1,  
    PRIMARY KEY (`medicine_id`,`prescription_id`),  
    FOREIGN KEY (`medicine_id`) REFERENCES `Medicine` ( `medicine_id` ) ON DELETE CASCADE,  
    FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` ( `prescription_id` ) ON DELETE CASCADE  
);
```

-- 11. Medical\_Bill

```
DROP TABLE IF EXISTS `Medical_Bill`;  
CREATE TABLE `Medical_Bill` (  
    `prescription_id` int NOT NULL,  
    `bill_number` int NOT NULL,  
    PRIMARY KEY (`prescription_id`),  
    FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` ( `prescription_id` ) ON DELETE CASCADE,  
    FOREIGN KEY (`bill_number`) REFERENCES `Bill` ( `bill_number` ) ON DELETE CASCADE  
);
```

-- 12. Doctor\_Patient

```
DROP TABLE IF EXISTS `Appointment`;  
CREATE TABLE `Appointment` (  
    `doctor_id` int NOT NULL,  
    `patient_id` int NOT NULL,  
    `date` Date NOT NULL,  
    `start_time` Time NOT NULL,  
    PRIMARY KEY (`doctor_id`,`patient_id`,`date`,`start_time`),  
    FOREIGN KEY (`doctor_id`) REFERENCES `Doctor` ( `doctor_id` ) ON DELETE CASCADE,  
    FOREIGN KEY (`patient_id`) REFERENCES `Patient` ( `patient_id` ) ON DELETE CASCADE  
);
```

-- 13. Treatment Bill

```
DROP TABLE IF EXISTS `Treatment_Bill`;  
CREATE TABLE `Treatment_Bill` (  
    `bill_number` int,  
    `treatment_id` int NOT NULL,  
    PRIMARY KEY (`treatment_id`),  
    FOREIGN KEY (`bill_number`) REFERENCES `Bill` ( `bill_number` ) ON DELETE CASCADE,
```

```

        FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE
    );

-- 14. Pays

DROP TABLE IF EXISTS `Pays`;
CREATE TABLE `Pays` (
    `patient_id` int NOT NULL,
    `bill_number` int NOT NULL,
    PRIMARY KEY (`bill_number`),
    FOREIGN KEY (`bill_number`) REFERENCES `Bill` (`bill_number`) ON DELETE CASCADE
);

-- 15. Nurse_Treatment

DROP TABLE IF EXISTS `Serves`;
CREATE TABLE `Serves` (
    `treatment_id` int NOT NULL,
    `nurse_id` int NOT NULL,
    PRIMARY KEY (`treatment_id`,`nurse_id`),
    FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE,
    FOREIGN KEY (`nurse_id`) REFERENCES `Nurse` (`nurse_id`) ON DELETE CASCADE
);

-- 17. Bill_Diag

DROP TABLE IF EXISTS `Bill_Diag`;
CREATE TABLE `Bill_Diag` (
    `bill_number` int,
    `diagnosis_id` int NOT NULL,
    PRIMARY KEY (`diagnosis_id`),
    FOREIGN KEY (`bill_number`) REFERENCES `Bill` (`bill_number`) ON DELETE CASCADE,
    FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` (`diagnosis_id`) ON DELETE CASCADE
);

-- 18. Implies

DROP TABLE IF EXISTS `Implies`;
CREATE TABLE `Implies` (
    `diagnosis_id` int NOT NULL,
    `treatment_id` int NOT NULL,
    PRIMARY KEY (`diagnosis_id`),

```

```
FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` ( `diagnosis_id` ) ON DELETE CASCADE,  
FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` ( `treatment_id` ) ON DELETE CASCADE  
);
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0017 seconds.)

```
CREATE TABLE `Patient` ( `patient_id` int NOT NULL, `first_name` varchar(30), `last_name` varchar(30), `contact_no` varchar(15) UNIQUE, `address` varchar(100), PRIMARY KEY (`patient_id`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
CREATE TABLE `Room` ( `room_no` int NOT NULL, `name` varchar(30), `availability` bit, PRIMARY KEY (`room_no`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE `Doctor` ( `doctor_id` int NOT NULL AUTO_INCREMENT, `first_name` varchar(30), `last_name` varchar(30), `contact_no` varchar(15) UNIQUE, `address` varchar(50), `salary` decimal(10, 2), `specialization` varchar(30), `role` varchar(30), `room_no` int NOT NULL, PRIMARY KEY (`doctor_id`), FOREIGN KEY (`room_no`) REFERENCES `Room` ( `room_no` ) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
CREATE TABLE `Medicine` ( `medicine_id` int NOT NULL AUTO_INCREMENT, `inventory_quantity` int, `name` varchar(30), `price` decimal(10, 2), PRIMARY KEY (`medicine_id`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
CREATE TABLE `Nurse` ( `nurse_id` int NOT NULL AUTO_INCREMENT, `first_name` varchar(30), `last_name` varchar(30), `contact_no` varchar(15) UNIQUE, `address` varchar(100), `salary` decimal(10, 2), PRIMARY KEY (`nurse_id`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
CREATE TABLE `Bill` ( `bill_number` int NOT NULL, `bill_type` int, `total` decimal(10, 2), `subtotal` decimal(10, 2), `taxes` decimal(10, 2), `paid` int, PRIMARY KEY (`bill_number`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
CREATE TABLE `Employee` ( `employee_id` int NOT NULL AUTO_INCREMENT, `first_name` varchar(30), `last_name` varchar(30), `contact_no` varchar(15) UNIQUE, `occupation` varchar(30), `address` varchar(50), `salary` decimal(10, 2), PRIMARY KEY (`employee_id`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
CREATE TABLE `Prescription` ( `prescription_id` int NOT NULL, PRIMARY KEY (`prescription_id`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE `Diagnosis` ( `diagnosis_id` int NOT NULL, `results` varchar(150), PRIMARY KEY (`diagnosis_id`));
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)
 

```
CREATE TABLE `Treatment` ( `treatment_id` int NOT NULL, `start_date` Date, `end_date` Date, `details` varchar(255), PRIMARY KEY (`treatment_id`) );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)
 

```
CREATE TABLE `Test` ( `test_id` int NOT NULL AUTO_INCREMENT, `name` varchar(50), `cost` decimal(10, 2), PRIMARY KEY (`test_id`) );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)
 

```
CREATE TABLE `Procedure` ( `procedure_id` int NOT NULL AUTO_INCREMENT, `name` varchar(50), `cost` decimal(10, 2), PRIMARY KEY (`procedure_id`) );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)
 

```
CREATE TABLE `Patient_Log` ( `patient_id` int NOT NULL, `checkin` Datetime, `checkout` Datetime, PRIMARY KEY (`patient_id`, `checkin`), FOREIGN KEY (`patient_id`) REFERENCES `Patient` ( `patient_id` ) ON DELETE CASCADE );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]

	Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/>	bill	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	diagnosis	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	doctor	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
<input type="checkbox"/>	employee	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	medicine	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	nurse	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	patient	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	patient_log	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	prescription	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	procedure	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	room	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	test	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	treatment	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
	13 tables	Sum	0	InnoDB	utf8mb4_general_ci	288.0 KiB	0 B

## Creating Relationship sets:

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)
 

```
CREATE TABLE `Treated` ( `patient_id` int, `treatment_id` int NOT NULL, PRIMARY KEY (`treatment_id`), FOREIGN KEY (`patient_id`) REFERENCES `Patient` (`patient_id`) ON DELETE CASCADE, FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)
 

```
-- 2. Performs CREATE TABLE `Performs` ( `doctor_id` int NOT NULL, `treatment_id` int NOT NULL, PRIMARY KEY (`treatment_id`,`doctor_id`), FOREIGN KEY (`doctor_id`) REFERENCES `Doctor` ( `doctor_id` ) ON DELETE CASCADE, FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` ( `treatment_id` ) ON DELETE CASCADE );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)
 

```
-- 3. Done_In CREATE TABLE `Done_In` ( `treatment_id` int NOT NULL, `room_no` int NOT NULL, PRIMARY KEY (`treatment_id`), FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` ( `treatment_id` ) ON DELETE CASCADE, FOREIGN KEY (`room_no`) REFERENCES `Room` ( `room_no` ) ON DELETE CASCADE );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)
 

```
-- 4. Procedure_Treatment CREATE TABLE `Consists` ( `procedure_id` int NOT NULL, `treatment_id` int NOT NULL, PRIMARY KEY (`procedure_id`,`treatment_id`), FOREIGN KEY (`procedure_id`) REFERENCES `Procedure` ( `procedure_id` ) ON DELETE CASCADE, FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` ( `treatment_id` ) ON DELETE CASCADE );
```

 [ Edit inline ] [ Edit ] [ Create PHP code ]



✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
-- 5. Undergoes CREATE TABLE `Undergoes` ( `patient_id` int, `diagnosis_id` int NOT NULL, PRIMARY KEY (`diagnosis_id`), FOREIGN KEY (`patient_id`) REFERENCES `Patient` (`patient_id`) ON DELETE CASCADE, FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` (`diagnosis_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
-- 6. Recommends CREATE TABLE `Recommends` ( `doctor_id` int NOT NULL, `diagnosis_id` int NOT NULL, PRIMARY KEY (`diagnosis_id`), FOREIGN KEY (`doctor_id`) REFERENCES `Doctor` (`doctor_id`) ON DELETE CASCADE, FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` (`diagnosis_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
-- 7. Involves CREATE TABLE `Involves` ( `diagnosis_id` int NOT NULL, `test_id` int NOT NULL, `results` varchar(100), PRIMARY KEY (`diagnosis_id`, `test_id`), FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` (`diagnosis_id`) ON DELETE CASCADE, FOREIGN KEY (`test_id`) REFERENCES `Test` (`test_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
-- 8. Treatment_Prescription CREATE TABLE `Treatment_Presc` ( `treatment_id` int NOT NULL, `prescription_id` int NOT NULL, PRIMARY KEY (`treatment_id`), FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` (`prescription_id`) ON DELETE CASCADE, FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
-- 9. Diag_Presc CREATE TABLE `Diag_Presc` ( `prescription_id` int, `diagnosis_id` int NOT NULL, PRIMARY KEY (`diagnosis_id`), FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` (`prescription_id`) ON DELETE CASCADE, FOREIGN KEY (`diagnosis_id`) REFERENCES `Diagnosis` (`diagnosis_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
-- 10. Includes CREATE TABLE `Includes` ( `medicine_id` int NOT NULL, `prescription_id` int NOT NULL, `unit` int DEFAULT 1, PRIMARY KEY (`medicine_id`,`prescription_id`), FOREIGN KEY (`medicine_id`) REFERENCES `Medicine` (`medicine_id`) ON DELETE CASCADE, FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` (`prescription_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
-- 11. Medical_Bill CREATE TABLE `Medical_Bill` ( `prescription_id` int NOT NULL, `bill_number` int NOT NULL, PRIMARY KEY (`prescription_id`), FOREIGN KEY (`prescription_id`) REFERENCES `Prescription` (`prescription_id`) ON DELETE CASCADE, FOREIGN KEY (`bill_number`) REFERENCES `Bill` (`bill_number`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
-- 12. Doctor_Patient CREATE TABLE `Appointment` ( `doctor_id` int NOT NULL, `patient_id` int NOT NULL, `date` Date NOT NULL, `start_time` Time NOT NULL, PRIMARY KEY (`doctor_id`,`patient_id`,`date`,`start_time`), FOREIGN KEY (`doctor_id`) REFERENCES `Doctor` (`doctor_id`) ON DELETE CASCADE, FOREIGN KEY (`patient_id`) REFERENCES `Patient` (`patient_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
-- 13. Treatment_Bill CREATE TABLE `Treatment_Bill` ( `bill_number` int, `treatment_id` int NOT NULL, PRIMARY KEY (`treatment_id`), FOREIGN KEY (`bill_number`) REFERENCES `Bill` (`bill_number`) ON DELETE CASCADE, FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
-- 14. Pays CREATE TABLE `Pays` ( `patient_id` int NOT NULL, `bill_number` int NOT NULL, PRIMARY KEY (`bill_number`), FOREIGN KEY (`bill_number`) REFERENCES `Bill` (`bill_number`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
-- 15. Nurse_Treatment CREATE TABLE `Serves` ( `treatment_id` int NOT NULL, `nurse_id` int NOT NULL, PRIMARY KEY (`treatment_id`,`nurse_id`), FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE, FOREIGN KEY (`nurse_id`) REFERENCES `Nurse` (`nurse_id`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
-- 16. Treatment_Room CREATE TABLE `Aftercare` ( `treatment_id` int NOT NULL, `room_no` int NOT NULL, `start_date` Date NOT NULL, `end_date` Date, PRIMARY KEY (`treatment_id`,`room_no`,`start_date`), FOREIGN KEY (`treatment_id`) REFERENCES `Treatment` (`treatment_id`) ON DELETE CASCADE, FOREIGN KEY (`room_no`) REFERENCES `Room` (`room_no`) ON DELETE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0010 seconds.)

-- 17. Bill\_Diag CREATE TABLE `Bill\_Diag` ( `bill\_number` int, `diagnosis\_id` int NOT NULL, PRIMARY KEY (`diagnosis\_id`), FOREIGN KEY (`bill\_number`) REFERENCES `Bill` (`bill\_number`) ON DELETE CASCADE, FOREIGN KEY (`diagnosis\_id`) REFERENCES `Diagnosis` (`diagnosis\_id`) ON DELETE CASCADE );

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

-- 18. Implies CREATE TABLE `Implies` ( `diagnosis\_id` int NOT NULL, `treatment\_id` int NOT NULL, PRIMARY KEY (`diagnosis\_id`), FOREIGN KEY (`diagnosis\_id`) REFERENCES `Diagnosis` (`diagnosis\_id`) ON DELETE CASCADE, FOREIGN KEY (`treatment\_id`) REFERENCES `Treatment` (`treatment\_id`) ON DELETE CASCADE );

[ Edit inline ] [ Edit ] [ Create PHP code ]

	Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/>	aftercare	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	appointment	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	bill	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	bill_diag	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	consists	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	diagnosis	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	diag_presc	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	doctor	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
<input type="checkbox"/>	done_in	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	employee	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	implies	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	includes	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	involves	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	medical_bill	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	medicine	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	nurse	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	patient	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	patient_log	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
	Console	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-

<input type="checkbox"/>	pays	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	performs	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	prescription	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	procedure	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	recommends	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	room	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	serves	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	test	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	treated	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	treatment	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	treatment_bill	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	treatment_presc	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/>	undergoes	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
	31 tables	Sum	0	InnoDB	utf8mb4_general_ci	848.0 KiB	0 B
	<input type="checkbox"/> Check all	With selected:					

## Populating The Database:

```
INSERT INTO `Test` (`name`, `cost`) VALUES
("Ultrasound Imaging", 500),
("MRI", 3000),
("CT Scan", 4000),
("X-Ray", 1000),
("Blood Sugar", 5000);
```

```
INSERT INTO `Room` (`room_no`, `name`, `availability`) VALUES
(1, "ER Room", 1),
(2, "Doctor Room", 0),
(3, "Aftercare Room", 1),
(4, "Aftercare Room", 0),
(5, "Doctor Room", 0);
```

```
INSERT INTO `Employee` (`first_name`, `last_name`, `contact_no`, `occupation`, `address`, `salary`)
VALUES
("arjun", "sheikh", "9010202211", "janitor", "Raj Bhavan Road", 10000),
("Rohit", "Sharma", "9876787687", "Driver", "Andheri East, Mumbai", 20000),
("naman", "ojha", "9010233211", "ward boy", "Gachibowli, Hyderabad", 7000),
("azad", "kade", "9911234544", "cleaning staff", "JUbilee Hills, Hyderabad", 10000.00),
("Pitamaha", "Khandke", "02227221431", "mechanic", "Himayathnagar, Hyderabad", 99948.03);
```

```
INSERT INTO `Doctor` (`first_name`, `last_name`, `contact_no`, `address`, `salary`, `specialization`,
`role`, `room_no`) VALUES
("Devika", "Patel", "9733277342", "E2, Near Lsr Collage, East Of Kailash, Delhi", 80000.00, "Neuro
surgeon", "surgeon", 2),
("Ameretat", "Sachdev", "02226609802", "Rotary Service Centre, Mumbai", 150000.00, "Orthopedics",
"General Physicain", 5),
("Revati", "Mehta", "9733277444", "274 /b, Girdhari Sadan, N.c.kelkar Road", 100000, "Orthopaedics",
"Orthopedic surgeons", 2),
("Saka", "Ghate", "07925501915", "29 /b, Asopalav, Khanpur", 20000, "Cardiology", "Pathologist", 5),
("Matsya", "Sridhar", "2660030345", "Bundi Mottu Avenue Road Cross, Avenue Road", 100000.00,
"Pediatrics", "Pediatrician", 5);
```

```
INSERT INTO `Procedure` (`name`, `cost`) VALUES
("Coronary Angiogram", 63500.00),
("Angioplasty", 412750.00),
("Abdominal aortic aneurysm", 508000.00),
```

```
("Knee Replacement", 539750.00),  
("ACL Reconstruction", 285750.00);
```

```
INSERT INTO `Nurse` (`first_name`, `last_name`, `contact_no`, `address`, `salary`) VALUES  
("Maheshvari", "Gothel", "9292451252", "241 -, Natraj Market, Sv Road, Malad, Mumbai", 40000.00),  
("Atman", "Jain", "02225123138", "Chittranjan Nagar, Rajawadi, Ghatkoper, Mumbai", 25000.00),  
("Archana", "Hans", "02227895689", "22 Rachna, Sector , Vashi, Mumbai", 30000.00),  
("Bharat", "Badal", "02228882593", "109 , Parasrampuria Chambers, Opp Rly Stn, Malad (west)",  
35000.00),  
("Manda", "Saran", "02223862592", "448 A, Girgaum, Mumbai", 25000.00);
```

```
INSERT INTO `Medicine` (`inventory_quantity`, `name`, `price`) VALUES  
(145, "Ifosfamide", 551.65),  
(78, "Cisplatin", 360.00),  
(233, "Oxaliplatin", 4798.00),  
(124, "Methotrexate", 57.85),  
(112, "Busulfan", 415.00);
```

```
INSERT INTO `Patient` VALUES  
(1, "Jyotish", "Divan", "02223443172", "417 ,sai Chambers, Narshi Natha St, Chinch Bunder"),  
(2, "Yasmine", "Kumar", "02224464461", "349 ,Allied Indl Estae Off Mmc, Off M.m.c Road, Mahim"),  
(3, "Supriya", "Shanker", "02224092768", "41 /, Sadar Nagar No , Sion");
```

```
INSERT INTO `Patient_Log` (`patient_id`, `checkin`, `checkout`) VALUES  
(1, "2012-12-02 20:20:10", NULL),  
(2, "2020-08-05 14:56:24", "2020-08-05 18:34:32"),  
(3, "2015-12-02 08:20:10", "2015-12-02 11:20:10"),  
(3, "2015-12-05 10:20:10", "2015-12-06 11:20:10");
```

```
INSERT INTO `Appointment` (`doctor_id`, `patient_id`, `date`, `start_time`) VALUES  
(3, 3, "2015-12-02", "08:35:00"),  
(2, 2, "2020-08-05", "13:05:13");
```

```
INSERT INTO `Diagnosis` (`diagnosis_id`, `results`) VALUES  
(3, "Type 2 diabetes"),  
(2, "Scans Normal. No treatment required. Patient advised to take prescribed medicines");
```

```
INSERT INTO `Treatment` (`treatment_id`, `start_date`, `end_date`, `details`) VALUES  
(1, "2012-12-02", "2012-12-03", "Success with slight knee complication"),  
(2, "2015-12-05", "2015-12-06", "Sugar levels reduced");
```

```
INSERT INTO `Bill` VALUES
```

```
(1, 2, 762000.00, 700000, 62000, 0),  
(2, 1, 1000.5, 969.5, 31, 1),  
(3, 0, 6300, 6000, 300, 1),  
(5, 0, 8000.00, 7500.00, 500.00, 1),  
(6, 1, 952.95, 832.85, 120.10, 1),  
(4, 2, 855000, 850500, 4500, 1);
```

```
INSERT INTO `Prescription` VALUES
```

```
(1),  
(5);
```

```
INSERT INTO `Implies` (`diagnosis_id`, `treatment_id`) VALUES
```

```
(3, 2);
```

```
INSERT INTO `Recommends` (`doctor_id`, `diagnosis_id`) VALUES
```

```
(3, 3),  
(2, 2);
```

```
INSERT INTO `Done_In` VALUES
```

```
(1, 1),  
(2, 1);
```

```
INSERT INTO `Treated` VALUES
```

```
(1, 1),  
(3, 2);
```

```
INSERT INTO `Performs` VALUES
```

```
(1, 1),  
(4, 2),  
(5, 2);
```

```
INSERT INTO `Consists` VALUES
```

```
(1, 1),  
(2, 1),  
(4, 1),  
(4, 2),  
(1, 2);
```

```
INSERT INTO `Treatment_Bill` VALUES
```

```
(1, 1),  
(4, 2);
```

```
INSERT INTO `Pays` VALUES
```

```
(1, 1),  
(3, 3),  
(2, 5),  
(2, 6),  
(1, 2),  
(3, 4);
```

```
INSERT INTO `Serves` VALUES
```

```
(1, 1);
```

```
INSERT INTO `Treatment_Presc` VALUES
```

```
(1, 1);
```

```
INSERT INTO `Includes` (`medicine_id`, `prescription_id`) VALUES
```

```
(1, 1),  
(2, 1),  
(4, 1),  
(2, 5),  
(4, 5),  
(5, 5);
```

```
INSERT INTO `Medical_Bill` VALUES
```

```
(1, 2),  
(5, 6);
```

```
INSERT INTO `Involves` VALUES
```

```
(2, 2, ""),  
(2, 3, ""),  
(3, 5, "Positive");
```

```
INSERT INTO `Undergoes` VALUES
```

```
(3, 3),  
(2, 2);
```

```
INSERT INTO `Bill_Diag` VALUES
```

```
(3, 3),  
(5, 2);
```

```
INSERT INTO `Diag_Presc` VALUES
```

```
(5, 2);
```

<div>✔ 5 rows inserted.</div> <div>Inserted row id: 5 (Query took 0.0036 seconds.)</div> <div><pre>INSERT INTO `Test` (`name`, `cost`) VALUES ("Ultrasound Imaging", 500), ("MRI", 3000), ("CT Scan", 4000), ("X-Ray", 1000), ("Blood Sugar", 5000);</pre></div> <div>[ Edit inline ] [ Edit ] [ Create PHP code ]</div>
<div>✔ 5 rows inserted.</div> <div>Inserted row id: 5 (Query took 0.0017 seconds.)</div> <div><pre>INSERT INTO `Room` (`room_no`, `name`, `availability`) VALUES (1, "ER Room", 1), (2, "Doctor Room", 0), (3, "Aftercare Room", 1), (4, "Aftercare Room", 0), (5, "Doctor Room", 0);</pre></div> <div>[ Edit inline ] [ Edit ] [ Create PHP code ]</div>
<div>✔ 5 rows inserted.</div> <div>Inserted row id: 5 (Query took 0.0004 seconds.)</div> <div><pre>INSERT INTO `Employee` (`first_name`, `last_name`, `contact_no`, `occupation`, `address`, `salary`) VALUES ("arjun", "sheikh", "9010202211", "janitor", "Raj Bhavan Road", 10000), ("Rohit", "Sharma", "9876787687", "Driver", "Andheri East, Mumbai", 20000), ("naman", "ojha", "9010233211", "ward boy", "Gachibowli, Hyderabad", 7000), ("azad", "kade", "9911234544", "cleaning staff", "Jubilee Hills, Hyderabad",10000.00), ("Pitamaha", "Khandke", "02227221431", "mechanic", "Himayathnagar, Hyderabad", 99948.03);</pre></div> <div>[ Edit inline ] [ Edit ] [ Create PHP code ]</div>
<div>✔ 5 rows inserted.</div> <div>Inserted row id: 5 (Query took 0.0011 seconds.)</div> <div><pre>INSERT INTO `Doctor` (`first_name`, `last_name`, `contact_no`, `address`, `salary`, `specialization`, `role`, `room_no`) VALUES ("Devika", "Patel", "9733277342", "E2, Near Lsr Collage, East Of Kailash, Delhi", 80000.00, "Neuro surgeon", "surgeon", 2), ("Aneretat", "Sachdev", "02226609802", "Rotary Service Centre, Mumbai", 150000.00, "Orthopedics", "General Physicain", 5), ("Revati", "Mehta", "9733277444", "274 /b, Girdhari Sadan, N.c.kelkar Road", 100000, "Orthopaedics", "Orthopedic surgeons", 2), ("Saka", "Ghate", "07925501915", "29 /b, Asopalav, Khanpur", 20000, "Cardiology", "Pathologist", 5), ("Matsya", "Sridhar", "2660030345", "Bundi Mottu Avenue Road Cross, Avenue Road", 100000.00, "Pediatrics", "Pediatrician", 5);</pre></div> <div>[ Edit inline ] [ Edit ] [ Create PHP code ]</div>
<div>✔ 5 rows inserted.</div> <div>Inserted row id: 5 (Query took 0.0005 seconds.)</div> <div><pre>INSERT INTO `Procedure` (`name`, `cost`) VALUES ("Coronary Angiogram", 63500.00), ("Angioplasty", 412750.00), ("Abdominal aortic aneurysm", 508000.00), ("Knee Replacement", 539750.00), ("ACL Reconstruction", 285750.00);</pre></div> <div>[ Edit inline ] [ Edit ] [ Create PHP code ]</div>
<div>✔ 5 rows inserted.</div> <div>Inserted row id: 5 (Query took 0.0016 seconds.)</div> <div><pre>INSERT INTO `Nurse` (`first_name`, `last_name`, `contact_no`, `address`, `salary`) VALUES ("Maheshvari", "Gothe", "9292451252", "241 -, Natraj Market, Sv Road, Malad, Mumbai", 40000.00), ("Atman", "Jain", "02225123138", "Chitttranjan Nagar, Rajawadi, Ghatkoper, Mumbai", 25000.00), ("Archana", "Hans", "02227895689", "22 Rachna, Sector , Vashi, Mumbai", 30000.00), ("Bharat", "Badal", "02228882593", "109 , Parasrampuria Chambers, Opp Rly Stn, Malad (west)", 35000.00), ("Manda", "Saran", "02223862592", "448 A, Girgaum, Mumbai", 25000.00);</pre></div> <div>[ Edit inline ] [ Edit ] [ Create PHP code ]</div>
<div>✔ 5 rows inserted.</div> <div>Inserted row id: 5 (Query took 0.0019 seconds.)</div> <div><pre>INSERT INTO `Medicine` (`inventory_quantity`, `name`, `price`) VALUES (145, "Ifosfamide", 551.65), (78, "Cisplatin", 360.00), (233, "Oxaliplatin", 4798.00), (124, "Methotrexate", 57.85), (112, "Busulfan", 415.00);</pre></div> <div>[ Edit inline ] [ Edit ] [ Create PHP code ]</div>
<div>✔ 3 rows inserted.</div> <div>Inserted row id: 3 (Query took 0.0004 seconds.)</div> <div><pre>INSERT INTO `Patient` VALUES (1, "Jyotish","Divan", "02223443172", "417 ,sai Chambers, Narshi Natha St, Chinch Bunder"), (2, "Yasmine","Kumar","02224464461", "349 ,Allied Indl Estae Off Mmc, Off M.m.c Road, Mahim"), (3, "Supriya", "Shanker", "02224092768", "41 /, Sadar Nagar No , Sion");</pre></div>

✔ 4 rows inserted.

Inserted row id: 4 (Query took 0.0012 seconds.)

```
INSERT INTO `Patient_Log` (`patient_id`, `checkin`, `checkout`) VALUES (1, "2012-12-02 20:20:10", NULL), (2, "2020-08-05 14:56:24", "2020-08-05 18:34:32"), (3, "2015-12-02 08:20:10", "2015-12-02 11:20:10"), (3, "2015-12-05 10:20:10", "2015-12-06 11:20:10");
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 2 rows inserted.

Inserted row id: 2 (Query took 0.0015 seconds.)

```
INSERT INTO `Appointment` (`doctor_id`, `patient_id`, `date`, `start_time`) VALUES (3, 3, "2015-12-02", "08:35:00"), (2, 2, "2020-08-05", "13:05:13");
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 2 rows inserted.

Inserted row id: 2 (Query took 0.0013 seconds.)

```
INSERT INTO `Diagnosis` (`diagnosis_id`, `results`) VALUES (3, "Type 2 diabetes"), (2, "Scans Normal. No treatment required. Patient advised to take prescribed medicines");
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 2 rows inserted.

Inserted row id: 2 (Query took 0.0003 seconds.)

```
INSERT INTO `Treatment` (`treatment_id`, `start_date`, `end_date`, `details`) VALUES (1, "2012-12-02", "2012-12-03", "Success with slight knee complication"), (2, "2015-12-05", "2015-12-06", "Sugar levels reduced");
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 6 rows inserted.

Inserted row id: 6 (Query took 0.0015 seconds.)

```
INSERT INTO `Bill` VALUES (1, 2, 762000.00, 700000, 62000, 0), (2, 1, 1000.5, 969.5, 31, 1), (3, 0, 6300, 6000, 300, 1), (5, 0, 8000.00, 7500.00, 500.00, 1), (6, 1, 952.95, 832.85, 120.10, 1), (4, 2, 855000, 850500, 4500, 1);
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 1 row inserted. (Query took 0.0005 seconds.)

```
INSERT INTO `Serves` VALUES (1, 1);
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 1 row inserted. (Query took 0.0005 seconds.)

```
INSERT INTO `Treatment_Presc` VALUES (1, 1);
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 6 rows inserted. (Query took 0.0030 seconds.)

```
INSERT INTO `Includes` (`medicine_id`, `prescription_id`) VALUES (1, 1), (2, 1), (4, 1), (2, 5), (4, 5), (5, 5);
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 2 rows inserted. (Query took 0.0031 seconds.)

```
INSERT INTO `Medical_Bill` VALUES (1, 2), (5, 6);
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 3 rows inserted. (Query took 0.0028 seconds.)

```
INSERT INTO `Involves` VALUES (2, 2, ""), (2, 3, ""), (3, 5, "Positive");
```

[ Edit inline ] [ Edit ] [ Create PHP code ]



2 rows inserted. (Query took 0.0035 seconds.)

```
INSERT INTO `Undergoes` VALUES (3, 3), (2, 2);
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

2 rows inserted. (Query took 0.0023 seconds.)

```
INSERT INTO `Bill_Diag` VALUES (3, 3), (5, 2);
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

1 row inserted. (Query took 0.0003 seconds.)

```
INSERT INTO `Diag_Presc` VALUES (5, 2);
```

















[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

## Tables after Populating

Test:

<div><div><div><div></div><div></div><div></div></div></div><div></div></div>				test_id	name	cost
<div><div><div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	1	Ultrasound Imaging	500.00
<div><div><div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	2	MRI	3000.00
<div><div><div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	3	CT Scan	4000.00
<div><div><div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	4	X-Ray	1000.00
<div><div><div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	5	Blood Sugar	5000.00

















Room

		room_no	name	availability
<input type="checkbox"/>	 Edit  Copy  Delete	1	ER Room	1
<input type="checkbox"/>	 Edit  Copy  Delete	2	Doctor Room	0
<input type="checkbox"/>	 Edit  Copy  Delete	3	Aftercare Room	1
<input type="checkbox"/>	 Edit  Copy  Delete	4	Aftercare Room	0
<input type="checkbox"/>	 Edit  Copy  Delete	5	Doctor Room	0













## Employee

		employee_id	first_name	last_name	contact_no	occupation	address	salary
<input type="checkbox"/>	 Edit  Copy  Delete	1	arjun	sheikh	9010202211	janitor	Raj Bhavan Road	10000.00
<input type="checkbox"/>	 Edit  Copy  Delete	2	Rohit	Sharma	9876787687	Driver	Andheri East, Mumbai	20000.00
<input type="checkbox"/>	 Edit  Copy  Delete	3	naman	ojha	9010233211	ward boy	Gachibowli, Hyderabad	7000.00
<input type="checkbox"/>	 Edit  Copy  Delete	4	azad	kade	9911234544	cleaning staff	JUBilee Hills, Hyderabad	10000.00
<input type="checkbox"/>	 Edit  Copy  Delete	5	Pitamaha	Khandke	02227221431	mechanic	Himayathnagar, Hyderabad	99948.03





## Doctor

		doctor_id	first_name	last_name	contact_no	address	salary	specialization	role	room_no
<input type="checkbox"/>	 Edit  Copy  Delete	1	Devika	Patel	9733277342	E2, Near Lsr Collage, East Of Kailash, Delhi	80000.00	Neuro surgeon	surgeon	2
<input type="checkbox"/>	 Edit  Copy  Delete	2	Ameretat	Sachdev	02228609802	Rotary Service Centre, Mumbai	150000.00	Orthopedics	General Physicain	5
<input type="checkbox"/>	 Edit  Copy  Delete	3	Revati	Mehta	9733277444	274 /b, Girdhari Sadan, N.c.kelkar Road	100000.00	Orthopaedics	Orthopedic surgeons	2
<input type="checkbox"/>	 Edit  Copy  Delete	4	Saka	Ghate	07925501915	29 /b, Asopalav, Khanpur	20000.00	Cardiology	Pathologist	5
<input type="checkbox"/>	 Edit  Copy  Delete	5	Matsya	Sridhar	2660030345	Bundi Mottu Avenue Road Cross, Avenue Road	100000.00	Pediatrics	Pediatrician	5




## Procedure

		procedure_id	name	cost
<input type="checkbox"/>	 Edit  Copy  Delete	1	Coronary Angiogram	63500.00
<input type="checkbox"/>	 Edit  Copy  Delete	2	Angioplasty	412750.00
<input type="checkbox"/>	 Edit  Copy  Delete	3	Abdominal aortic aneurysm	508000.00
<input type="checkbox"/>	 Edit  Copy  Delete	4	Knee Replacement	539750.00
<input type="checkbox"/>	 Edit  Copy  Delete	5	ACL Reconstruction	285750.00












## Nurse

 		nurse_id	first_name	last_name	contact_no	address	salary
<input type="checkbox"/>	 Edit  Copy  Delete	1	Maheshvari	Goth	9292451252	241 -, Natraj Market, Sv Road, Malad, Mumbai	40000.00
<input type="checkbox"/>	 Edit  Copy  Delete	2	Atman	Jain	02225123138	Chittranjan Nagar, Rajawadi, Ghatkoper, Mumbai	25000.00
<input type="checkbox"/>	 Edit  Copy  Delete	3	Archana	Hans	02227895689	22 Rachna, Sector , Vashi, Mumbai	30000.00
<input type="checkbox"/>	 Edit  Copy  Delete	4	Bharat	Badal	02228882593	109 , Parasrampur Chambers, Opp Rly Stn, Malad (...)	35000.00
<input type="checkbox"/>	 Edit  Copy  Delete	5	Manda	Saran	02223862592	448 A, Girgaum, Mumbai	25000.00















## Medicine

 		medicine_id	inventory_quantity	name	price
<input type="checkbox"/>	 Edit  Copy  Delete	1	145	Ifosfamide	551.65
<input type="checkbox"/>	 Edit  Copy  Delete	2	78	Cisplatin	360.00
<input type="checkbox"/>	 Edit  Copy  Delete	3	233	Oxaliplatin	4798.00
<input type="checkbox"/>	 Edit  Copy  Delete	4	124	Methotrexate	57.85
<input type="checkbox"/>	 Edit  Copy  Delete	5	112	Busulfan	415.00

## Patient

 		patient_id	first_name	last_name	contact_no	address
<input type="checkbox"/>	 Edit  Copy  Delete	1	Jyotish	Divan	02223443172	417 ,sai Chambers, Narshi Natha St, Chinch Bunder
<input type="checkbox"/>	 Edit  Copy  Delete	2	Yasmine	Kumar	02224464461	349 ,Allied Indl Estae Off Mmc, Off M.m.c Road, Ma...
<input type="checkbox"/>	 Edit  Copy  Delete	3	Supriya	Shanker	02224092768	41 /, Sadar Nagar No , Sion

## Patient\_log

 		patient_id	checkin	checkout
<input type="checkbox"/>	 Edit  Copy  Delete	1	2012-12-02 20:20:10	NULL
<input type="checkbox"/>	 Edit  Copy  Delete	2	2020-08-05 14:56:24	2020-08-05 18:34:32
<input type="checkbox"/>	 Edit  Copy  Delete	3	2015-12-02 08:20:10	2015-12-02 11:20:10
<input type="checkbox"/>	 Edit  Copy  Delete	3	2015-12-05 10:20:10	2015-12-06 11:20:10

## Appointment:

 		doctor_id	patient_id	date	start_time
<input type="checkbox"/>	 Edit  Copy  Delete	2	2	2020-08-05	13:05:13
<input type="checkbox"/>	 Edit  Copy  Delete	3	3	2015-12-02	08:35:00

## Diagnosis

		diagnosis_id	results
<input type="checkbox"/>	Edit  Copy  Delete	2	Scans Normal. No treatment required. Patient advis...
<input type="checkbox"/>	Edit  Copy  Delete	3	Type 2 diabetes

## Treatment

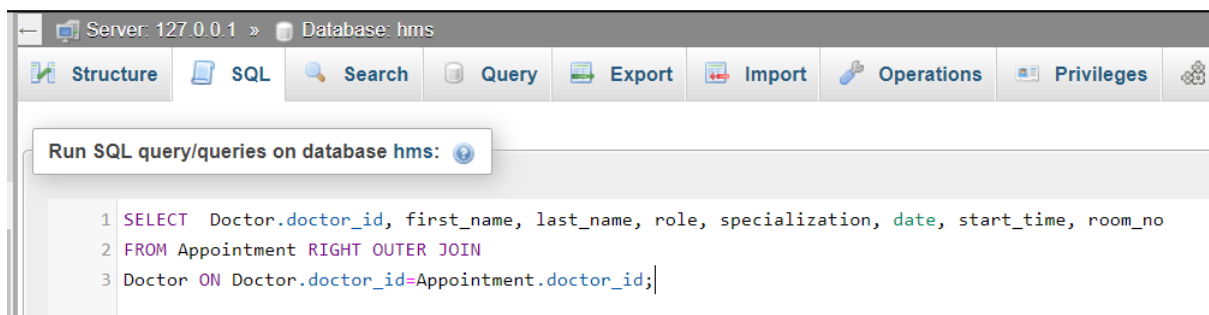
		treatment_id	start_date	end_date	details
<input type="checkbox"/>	Edit  Copy  Delete	1	2012-12-02	2012-12-03	Success with slight knee complication
<input type="checkbox"/>	Edit  Copy  Delete	2	2015-12-05	2015-12-06	Sugar levels reduced

## Bill

		bill_number	bill_type	total	subtotal	taxes	paid
<input type="checkbox"/>	Edit  Copy  Delete	1	2	762000.00	700000.00	62000.00	0
<input type="checkbox"/>	Edit  Copy  Delete	2	1	1000.50	969.50	31.00	1
<input type="checkbox"/>	Edit  Copy  Delete	3	0	6300.00	6000.00	300.00	1
<input type="checkbox"/>	Edit  Copy  Delete	4	2	855000.00	850500.00	4500.00	1
<input type="checkbox"/>	Edit  Copy  Delete	5	0	8000.00	7500.00	500.00	1
<input type="checkbox"/>	Edit  Copy  Delete	6	1	952.95	832.85	120.10	1

# JOIN QUERIES

1.Show details of all the doctors(who have/don't) have appointment along with their respective appointment details.



doctor_id	first_name	last_name	role	specialization	date	start_time	room_no
1	Devika	Patel	surgeon	Neuro surgeon	NULL	NULL	2
2	Ameretat	Sachdev	General Physicain	Orthopedics	2020-08-05	13:05:13	5
3	Revati	Mehta	Orthopedic surgeons	Orthopaedics	2015-12-02	08:35:00	2
4	Saka	Ghate	Pathologist	Cardiology	NULL	NULL	5
5	Matsya	Sridhar	Pediatrician	Pediatrics	NULL	NULL	5

2.Show a prescription report with medicine name, prescription\_id and unit number:

```

1 SELECT Includes.prescription_id, Includes.unit, Medicine.name
2 FROM Includes LEFT JOIN
3 Medicine ON Includes.medicine_id = Medicine.medicine_id;

```

✓ Showing rows 0 - 5 (6 total, Query took 0.0004 seconds.)

`SELECT Includes.prescription_id, Includes.unit, Medicine.name FROM Includes LEFT JOIN Medicine ON Includes.medicine_id = Medicine.medicine_id;`

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:  Sort by key: None

Extra options

prescription_id	unit	name
1	1	Ifosfamide
1	1	Cisplatin
5	1	Cisplatin
1	1	Methotrexate
5	1	Methotrexate
5	1	Busulfan

3.Display an appointment Menu containing only the doctors who have appointment booked.

```

1 SELECT D.doctor_id, CONCAT(D.first_name, " ", D.last_name), D.specialization, A.date, A.start_time
2 FROM (Doctor AS D) JOIN (Appointment AS A)
3 ON D.doctor_id = A.doctor_id
4 ORDER BY D.first_name ASC, D.last_name ASC
5
6

```

<div> <span>Showing rows 0 - 1 (2 total. Query took 0.0013 seconds.)</span> </div>				
<div> <pre>SELECT D.doctor_id, CONCAT(D.first_name, " ", D.last_name), D.specialization, A.date, A.start_time FROM (Doctor AS D) JOIN (Appointment AS A) ON D.doctor_id = A.doctor_id ORDER BY D.doctor_id ASC, D.start_time ASC;</pre> </div>				
<div> <div> <div> <div> <div>Profiling</div> <div>[ Edit inline ]</div> <div>[ Edit ]</div> <div>[ Explain SQL ]</div> <div>[ Create PHP code ]</div> <div>[ Refresh ]</div> </div> </div> </div> </div>				
<div> <div> <div> <div>Show all</div> <div>Number of rows: 25</div> <div>Filter rows: Search this table</div> </div> </div> </div>				
<div> <div>Extra options</div> </div>				
doctor_id	CONCAT(D.first_name, " ", D.last_name)	specialization	date	start_time
2	Ameretat Sachdev	Orthopedics	2020-08-05	13:05:13
3	Revati Mehta	Orthopaedics	2015-12-02	08:35:00
<div> <div> <div> <div>Show all</div> <div>Number of rows: 25</div> <div>Filter rows: Search this table</div> </div> </div> </div>				

4.Display a Bill Report containing all the details of test, procedure, medicine and patient with their respective bill details.

<div> <div>Run SQL query/queries on database hms:</div> </div>														
<div> <pre>1 SELECT Bill.*, Test.name as `Tests`, Test.cost as `Test_Cost`,`Procedure`.name as `Procedures`, `Procedure`.cost as `Procedure_Cost`, 2 Medicine.name as `drug`, Includes.unit as `Medicine_Qt`, Medicine.price as `Medicine_Unit_Cost`, 3 Patient.patient_id, CONCAT(Patient.first_name, " ", Patient.last_name) as `Patient_Name` 4 FROM Bill LEFT JOIN 5 Pays ON Pays.bill_number = Bill.bill_number LEFT JOIN 6 Patient ON Patient.patient_id = Pays.patient_id LEFT JOIN 7 Medical_Bill ON Medical_Bill.bill_number = Bill.bill_number LEFT JOIN 8 Includes ON Includes.prescription_id = Medical_Bill.prescription_id LEFT JOIN 9 Medicine ON Medicine.medicine_id = Includes.medicine_id LEFT JOIN 10 Bill_Diag ON Bill_Diag.bill_number = Bill.bill_number LEFT JOIN 11 Involves ON Involves.diagnosis_id = Bill_Diag.diagnosis_id LEFT JOIN 12 Test ON Test.test_id = Involves.test_id LEFT JOIN 13 Treatment_Bill ON Treatment_Bill.bill_number = Bill.bill_number LEFT JOIN 14 Consists ON Consists.treatment_id = Treatment_Bill.treatment_id LEFT JOIN 15 `Procedure` ON `Procedure`.procedure_id = Consists.procedure_id;</pre> </div>														
<div> <div> <div> <div>Showing rows 0 - 13 (14 total. Query took 0.0041 seconds.)</div> </div> </div> </div>														
<div> <div> <pre>SELECT Bill.*, Test.name as `Tests`, Test.cost as `Test_Cost`,`Procedure`.name as `Procedures`, `Procedure`.cost as `Procedure_Cost`, Medicine.name as `drug`, Includes.unit as `Medicine_Qt`, Medicine.price as `Medicine_Unit_Cost`, Patient.patient_id, CONCAT(Patient.first_name, " ", Patient.last_name) as `Patient_Name` FROM Bill LEFT JOIN Pays ON Pays.bill_number = Bill.bill_number LEFT JOIN Patient ON Patient.patient_id = Pays.patient_id LEFT JOIN Medical_Bill ON Medical_Bill.bill_number = Bill.bill_number LEFT JOIN Includes ON Includes.prescription_id = Medical_Bill.prescription_id LEFT JOIN Medicine ON Medicine.medicine_id = Includes.medicine_id LEFT JOIN Bill_Diag ON Bill_Diag.bill_number = Bill.bill_number LEFT JOIN Involves ON Involves.diagnosis_id = Bill_Diag.diagnosis_id LEFT JOIN Test ON Test.test_id = Involves.test_id LEFT JOIN Treatment_Bill ON Treatment_Bill.bill_number = Bill.bill_number LEFT JOIN Consists ON Consists.treatment_id = Treatment_Bill.treatment_id [...]</pre> </div> </div>														
<div> <div> <div> <div>Profiling</div> <div>[ Edit ]</div> <div>[ Refresh ]</div> </div> </div> </div>														
<div> <div> <div> <div>Show all</div> <div>Number of rows: 25</div> <div>Filter rows: Search this table</div> <div>Sort by key: None</div> </div> </div> </div>														
bill_number	bill_type	total	subtotal	taxes	paid	Tests	Test_Cost	Procedures	Procedure_Cost	drug	Medicine_Qt	Medicine_Unit_Cost	patient_id	Patient_Name
1	2	762000.00	700000.00	62000.00	0	NULL	NULL	Coronary Angiogram	63500.00	NULL	NULL	NULL	1	Jyotish Divan
1	2	762000.00	700000.00	62000.00	0	NULL	NULL	Angioplasty	412750.00	NULL	NULL	NULL	1	Jyotish Divan
1	2	762000.00	700000.00	62000.00	0	NULL	NULL	Knee Replacement	539750.00	NULL	NULL	NULL	1	Jyotish Divan
2	1	1000.50	969.50	31.00	1	NULL	NULL	NULL	NULL	Ilosfamide	1	551.65	1	Jyotish Divan
2	1	1000.50	969.50	31.00	1	NULL	NULL	NULL	NULL	Cisplatin	1	360.00	1	Jyotish Divan
2	1	1000.50	969.50	31.00	1	NULL	NULL	NULL	NULL	Methotrexate	1	57.85	1	Jyotish Divan
3	0	6300.00	6000.00	300.00	1	Blood Sugar	5000.00	NULL	NULL	NULL	NULL	NULL	3	Supriya Shanker
4	2	855000.00	850500.00	4500.00	1	NULL	NULL	Coronary Angiogram	63500.00	NULL	NULL	NULL	3	Supriya Shanker
4	2	855000.00	850500.00	4500.00	1	NULL	NULL	Knee Replacement	539750.00	NULL	NULL	NULL	3	Supriya Shanker
5	0	8000.00	7500.00	500.00	1	MRI	3000.00	NULL	NULL	NULL	NULL	NULL	2	Yasmine Kumar
5	0	8000.00	7500.00	500.00	1	CT Scan	4000.00	NULL	NULL	NULL	NULL	NULL	2	Yasmine Kumar
6	1	952.95	832.85	120.10	1	NULL	NULL	NULL	NULL	Cisplatin	1	360.00	2	Yasmine Kumar
6	1	952.95	832.85	120.10	1	NULL	NULL	NULL	NULL	Methotrexate	1	57.85	2	Yasmine Kumar
6	1	952.95	832.85	120.10	1	NULL	NULL	NULL	NULL	Busulfan	1	415.00	2	Yasmine Kumar

# AGGREGATE FUNCTIONS

1. Display count of doctors in the same room with respective room number.

Run SQL query/queries on table hms.doctor: ?

```
1 SELECT doctor.room_no,count(doctor.doctor_id)
2 from doctor
3 group by room_no
4 order by count(doctor.doctor_id)DESC;
```

	room_no	count(doctor.doctor_id)
<input type="checkbox"/> Edit Copy Delete	5	3
<input type="checkbox"/> Edit Copy Delete	2	2

2. Displays the doctor who has minimum salary.

```
SELECT * FROM doctor
```

```
WHERE salary = (
```

```
    SELECT MIN(salary)
```

```
FROM doctor);
```

Run SQL query/queries on table hms.doctor: ?

```
1 SELECT * FROM doctor
2 WHERE salary = (
3     SELECT MIN(salary)
4     FROM doctor);
```

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

SELECT \* FROM doctor WHERE salary = ( SELECT MIN(salary) FROM doctor);

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	doctor_id	first_name	last_name	contact_no	address	salary	specialization	role	room_no
<input type="checkbox"/> Edit Copy Delete	4	Saka	Ghate	07925501915	29 /b, Asopalav, Khanpur	20000.00	Cardiology	Pathologist	5

3. Displays the doctor who has maximum salary.

Run SQL query/queries on table hms.doctor:

```
1 SELECT * FROM doctor
2 WHERE salary = (
3     SELECT MAX(salary)
4     FROM doctor);
```

	doctor_id	first_name	last_name	contact_no	address	salary	specialization	role	room_no
	2	Ameretat	Sachdev	02226609802	Rotary Service Centre, Mumbai	150000.00	Orthopedics	General Physicain	5

4. Display average amount of the total amount on Bill of type 2

select AVG(total) as average\_of\_type\_2\_bill

from bill

where bill\_type="2"

Run SQL query/queries on table hms.bill:

```
1 select AVG(total) as average_of_type_2_bill
2 from bill
3 where bill_type="2"
```

average\_of\_type\_2\_bill

808500.000000

## SET OPERATIONS

1. Display first\_name of all the doctors and nurses

Run SQL query/queries on table hms.doctor:

```
1 SELECT doctor.first_name FROM doctor
2 UNION
3 SELECT nurse.first_name FROM nurse;
```



✓ Showing rows 0 - 9 (10 total, Query took 0.0002 seconds.)

```
SELECT doctor.first_name FROM doctor UNION SELECT nurse.first_name FROM nurse;
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows: 25 ▼ Filter rows:  Sort

Extra options

first_name
Devika
Ameretat
Revati
Saka
Matsya
Maheshvari
Atman
Archana
Bharat
Manda

2.Display addresses of all nurses and patients

```
SELECT nurse.first_name,nurse.address FROM nurse
```

```
UNION
```

```
SELECT patient.first_name,patient.address FROM patient;
```

Run SQL query/queries on table hms.patient: ?

```

1 SELECT nurse.first_name,nurse.address FROM nurse
2 UNION
3 SELECT patient.first_name,patient.addressX FROM patient;
4

```

✓ Showing rows 0 - 7 (8 total, Query took 0.0003 seconds.)

```
SELECT nurse.first_name,nurse.address FROM nurse UNION SELECT patient.first_name,patient.address FROM patient;
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows: 25 | Filter rows:  Sort by key:

Extra options

first_name	address
Maheshvari	241 -, Natraj Market, Sv Road, Malad, Mumbai
Atman	Chittranjan Nagar, Rajawadi, Ghatkoper, Mumbai
Archana	22 Rachna, Sector , Vashi, Mumbai
Bharat	109 , Parasrampuria Chambers, Opp Rly Stn, Malad (...)
Manda	448 A, Girgaum, Mumbai
Jyotish	417 ,sai Chambers, Narshi Natha St, Chinch Bunder
Yasmine	349 ,Allied Indl Estae Off Mmc, Off M.m.c Road, Ma...
Supriya	41 /, Sadar Nagar No , Sion

4.Display first\_name of all the doctors and patients

```
SELECT doctor.first_name FROM doctor
```

UNION

```
SELECT patient.first_name FROM patient;
```

```
1 SELECT doctor.first_name FROM doctor
2 UNION
3 SELECT patient.first_name FROM patient;
```

first_name
Devika
Ameretat
Revati
Saka
Matsya
Jyotish
Yasmine
Supriya

# FUNCTIONS AND PROCEDURES:

## 1.Function: Create an appointment by the consultant

```
DELIMITER $$

CREATE FUNCTION create_appointment(doctor int, patient_id int, start_datetime datetime)

RETURNS int

BEGIN

DECLARE created int;

IF (SELECT start_time FROM Appointment

    WHERE `date` = DATE(start_datetime) AND

    doctor_id = doctor AND start_time

    BETWEEN (SELECT subtime(TIME(start_datetime),'00:29:59'))

    AND (SELECT subtime(TIME(start_datetime),'-00:29:59'))

    THEN SET created = 0;

ELSE

    INSERT INTO Appointment VALUES

    (doctor, patient_id, DATE(start_datetime), TIME(start_datetime));

    SET created = 1;

END IF;

RETURN created;

END;

$$ DELIMITER ;
```

Run SQL query/queries on database hms: 

```
1  -- Create an appointment by the consultant
2  DELIMITER $$
3  CREATE FUNCTION create_appointment(doctor int, patient_id int, start_datetime datetime)
4  RETURNS int
5  BEGIN
6  DECLARE created int;
7  IF (SELECT start_time FROM Appointment
8      WHERE `date` = DATE(start_datetime) AND
9      doctor_id = doctor AND start_time
10     BETWEEN (SELECT subtime(TIME(start_datetime),'00:29:59'))
11     AND (SELECT subtime(TIME(start_datetime),'-00:29:59'))
12     THEN SET created = 0;
13  ELSE
14     INSERT INTO Appointment VALUES
15     (doctor, patient_id, DATE(start_datetime), TIME(start_datetime));
16     SET created = 1;
17  END IF;
18  RETURN created;
19  END;
20  $$ DELIMITER ;
```

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0097 seconds.)

CREATE FUNCTION create_appointment(doctor_id int, patient_id int, start_datetime datetime) RETURNS int BEGIN DECLARE created int; IF (SELECT start_time FROM Appointment WHERE "date" = DATE(start_datetime) AND doctor_id = doctor AND start_time BETWEEN (SELECT subtype(TIME(start_datetime),'00:29:59')) AND (SELECT subtype(TIME(start_datetime),'-00:29:59')) THEN SET created = 0; ELSE INSERT INTO Appointment VALUES (doctor, patient_id, DATE(start_datetime), TIME(start_datetime)); SET created = 1; END IF; RETURN created; END;;

[Edit inline][Edit][Create PHP code]
```

```
1 select doctor_id,create_appointment(1,3,"2020-08-05 05:56:24") from doctor;
```

✓ Showing rows 0 - 4 (5 total, Query took 0.0066 seconds.)

select doctor\_id,create\_appointment(1,3,"2020-08-05 05:56:24") from doctor;

☐ Profiling [Edit inline][Edit][Explain SQL][Create PHP code][Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: N

Extra options

	doctor_id	create_appointment(1,3,"2020-08-05 05:56:24")
<input type="checkbox"/> Edit Copy Delete	1	1
<input type="checkbox"/> Edit Copy Delete	3	0
<input type="checkbox"/> Edit Copy Delete	2	0
<input type="checkbox"/> Edit Copy Delete	4	0
<input type="checkbox"/> Edit Copy Delete	5	0

☐ Check all | With selected: Edit Copy Delete Export

A new appointment has been for doctor\_id 1 and patient\_id 3created using function

	doctor_id	patient_id	date	start_time
<input type="checkbox"/> Edit Copy Delete	1	3	2020-08-05	05:56:24
<input type="checkbox"/> Edit Copy Delete	2	2	2020-08-05	13:05:13
<input type="checkbox"/> Edit Copy Delete	3	3	2015-12-02	08:35:00

# Procedure

Run SQL query/queries on database hms: 

```
1  -- mark bill paid
2
3  DELIMITER $$
4  CREATE OR REPLACE PROCEDURE mark_bill_paid(
5  IN bill_id INT,
6  OUT success_state INT
7  )
8  BEGIN
9
10 IF EXISTS(SELECT * FROM Bill WHERE bill_number=bill_id) THEN
11 IF ((SELECT paid FROM Bill WHERE bill_number=bill_id) = 0) THEN
12 UPDATE Bill SET paid = 1 WHERE bill_number = bill_id;
13 SET success_state = 0;
14 ELSE
15 SET success_state = -1;
16 END IF;
17 END IF;
18
19 END;
20 $$ DELIMITER ;|
```

Clear    Format    Get auto-saved query

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0066 seconds.)

CREATE OR REPLACE PROCEDURE mark\_bill\_paid( IN bill\_id INT, OUT success\_state INT ) BEGIN IF EXISTS(SELECT \* FROM Bill WHERE bill\_number=bill\_id) THEN IF ((SELECT paid FROM Bill WHERE bill\_number=bill\_id) = 0) THEN UPDATE Bill SET paid = 1 WHERE bill\_number = bill\_id; SET success\_state = 0; ELSE SET success\_state = -1; END IF; END IF; END;;

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

BEFORE PROCEDURE CALL:

<div><div><div>←T→</div><div></div></div></div>		bill_number	bill_type	total	subtotal	taxes	paid
<input type="checkbox"/>	<div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	1	2	762000.00	700000.00	62000.00	0
<input type="checkbox"/>	<div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	2	1	1000.50	969.50	31.00	1
<input type="checkbox"/>	<div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	3	0	6300.00	6000.00	300.00	1
<input type="checkbox"/>	<div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	4	2	855000.00	850500.00	4500.00	1
<input type="checkbox"/>	<div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	5	0	8000.00	7500.00	500.00	1
<input type="checkbox"/>	<div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	6	1	952.95	832.85	120.10	1

Run SQL query/queries on database hms: ?

```
1 CALL mark_bill_paid( 1, @out_value)
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0061 seconds.)

```
CALL mark_bill_paid( 1, @out_value);
```

[ [Edit inline](#) ] [ [Edit](#) ] [ [Create PHP code](#) ]

#### AFTER PROCEDURE CALL:

<div><div><div>←</div><div>T</div><div>→</div></div><div></div></div>				bill_number	bill_type	total	subtotal	taxes	paid
<div><div><div></div></div><div><div><div></div><div></div></div></div><div><div>Edit</div><div><div></div><div></div></div></div><div><div>Copy</div><div><div></div><div></div></div></div><div><div>Delete</div><div><div></div><div></div></div></div></div>	1	2	762000.00	700000.00	62000.00	1			
<div><div><div></div></div><div><div><div></div><div></div></div></div><div><div>Edit</div><div><div></div><div></div></div></div><div><div>Copy</div><div><div></div><div></div></div></div><div><div>Delete</div><div><div></div><div></div></div></div></div>	2	1	1000.50	969.50	31.00	1			
<div><div><div></div></div><div><div><div></div><div></div></div></div><div><div>Edit</div><div><div></div><div></div></div></div><div><div>Copy</div><div><div></div><div></div></div></div><div><div>Delete</div><div><div></div><div></div></div></div></div>	3	0	6300.00	6000.00	300.00	1			
<div><div><div></div></div><div><div><div></div><div></div></div></div><div><div>Edit</div><div><div></div><div></div></div></div><div><div>Copy</div><div><div></div><div></div></div></div><div><div>Delete</div><div><div></div><div></div></div></div></div>	4	2	855000.00	850500.00	4500.00	1			
<div><div><div></div></div><div><div><div></div><div></div></div></div><div><div>Edit</div><div><div></div><div></div></div></div><div><div>Copy</div><div><div></div><div></div></div></div><div><div>Delete</div><div><div></div><div></div></div></div></div>	5	0	8000.00	7500.00	500.00	1			
<div><div><div></div></div><div><div><div></div><div></div></div></div><div><div>Edit</div><div><div></div><div></div></div></div><div><div>Copy</div><div><div></div><div></div></div></div><div><div>Delete</div><div><div></div><div></div></div></div></div>	6	1	952.95	832.85	120.10	1			

# TRIGGERS AND CURSORS

## Trigger

1. Create a trigger which initiates a delete first on prescription and bill before Diagnosis if there is an attempt to delete data in diagnosis table.

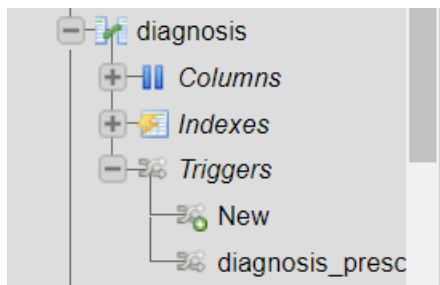
```
1 DELIMITER $$
2 CREATE OR REPLACE TRIGGER diagnosis_presc_bill_delete BEFORE DELETE ON Diagnosis
3 FOR EACH ROW
4 BEGIN
5 DELETE FROM Bill WHERE bill_number = (SELECT B.bill_number FROM Bill_Diag B WHERE B.diagnosis_id = OLD.diagnosis_id);
6 DELETE FROM Prescription WHERE prescription_id = (SELECT P.prescription_id FROM Diag_Presc P WHERE P.diagnosis_id = OLD.diagnosis_id);
7 END;
8 $$
9 DELIMITER ;
```

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0122 seconds.)

```
CREATE OR REPLACE TRIGGER diagnosis_presc_bill_delete BEFORE DELETE ON Diagnosis FOR EACH ROW BEGIN DELETE FROM Bill WHERE bill_number = (SELECT B.bill_number FROM Bill_Diag B WHERE B.diagnosis_id = OLD.diagnosis_id); DELETE FROM Prescription WHERE prescription_id = (SELECT P.prescription_id FROM Diag_Presc P WHERE P.diagnosis_id = OLD.diagnosis_id); END;
```

[ Edit inline ] [ Edit ] [ Create PHP code ]



Before:

				bill_number	bill_type	total	subtotal	taxes	paid
<input type="checkbox"/>	Edit	Copy	Delete	1	2	762000.00	700000.00	62000.00	1
<input type="checkbox"/>	Edit	Copy	Delete	2	1	1000.50	969.50	31.00	1
<input type="checkbox"/>	Edit	Copy	Delete	3	0	6300.00	6000.00	300.00	1
<input type="checkbox"/>	Edit	Copy	Delete	4	2	855000.00	850500.00	4500.00	1
<input type="checkbox"/>	Edit	Copy	Delete	5	0	8000.00	7500.00	500.00	1
<input type="checkbox"/>	Edit	Copy	Delete	6	1	952.95	832.85	120.10	1

Server: 127.0.0.1 » Database: hms » Table: diagnosis

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#)

Show query box

✓ 1 row affected. (Query took 0.0003 seconds.)

```
DELETE FROM diagnosis WHERE diagnosis_id=2;
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

After:

				bill_number	diagnosis_id
<input type="checkbox"/>				3	3

☐ Check all    With selected: Edit Copy

				prescription_id
<input type="checkbox"/>				1

				bill_number	bill_type	total	subtotal	taxes	paid
<input type="checkbox"/>				1	2	762000.00	700000.00	62000.00	1
<input type="checkbox"/>				2	1	1000.50	969.50	31.00	1
<input type="checkbox"/>				3	0	6300.00	6000.00	300.00	1
<input type="checkbox"/>				4	2	855000.00	850500.00	4500.00	1
<input type="checkbox"/>				6	1	952.95	832.85	120.10	1



DELIMITER \$\$

CREATE OR REPLACE TRIGGER diagnosis\_presc\_bill\_delete BEFORE DELETE ON Diagnosis  
FOR EACH ROW

BEGIN

DELETE FROM Bill WHERE bill\_number = (SELECT B.bill\_number FROM Bill\_Diag B WHERE  
B.diagnosis\_id = OLD.diagnosis\_id);

DELETE FROM Prescription WHERE prescription\_id = (SELECT P.prescription\_id FROM Diag\_Presc P  
WHERE P.diagnosis\_id = OLD.diagnosis\_id);

END;

\$\$

DELIMITER ;

## Cursor

1. Using a cursor shift the doctor names and specialization from the doctor table to a new table crs\_patconc.

DELIMITER \$\$

CREATE PROCEDURE move\_doc\_id\_specialization()

BEGIN

DECLARE Doctor\_names varchar(50);

DECLARE specialization varchar(50);

DECLARE done1 int DEFAULT 0;

DECLARE done2 int DEFAULT 0;

DECLARE crs1 CURSOR FOR SELECT doctor.first\_name FROM doctor;

DECLARE crs2 CURSOR FOR SELECT doctor.specialization FROM doctor;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done1 = 1;

OPEN crs1;

OPEN crs2;

getnames : LOOP

FETCH crs1 INTO Doctor\_names;

FETCH crs2 INTO specialization;

IF done1=1 THEN LEAVE getnames;

END IF;

INSERT INTO crs\_doc\_special VALUES (doctor\_names,specialization);

END LOOP getnames;

CLOSE crs1;

CLOSE crs2;

END \$\$;DELIMITER;

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0120 seconds.)

CREATE PROCEDURE move\_doc\_id\_specialization() BEGIN DECLARE Doctor\_names varchar(50); DECLARE specialization varchar(50); DECLARE done1 int DEFAULT 0; DECLARE done2 int DEFAULT 0; DECLARE crs1 CURSOR FOR SELECT doctor.first\_name FROM doctor; DECLARE crs2 CURSOR FOR SELECT doctor.specialization FROM doctor; DECLARE CONTINUE HANDLER FOR NOT FOUND SET done1 = 1; OPEN crs1; OPEN crs2; getnames : LOOP FETCH crs1 INTO Doctor\_names; FETCH crs2 INTO specialization; IF done1=1 THEN LEAVE getnames; END IF; INSERT INTO crs\_doc\_special VALUES (doctor\_names,specialization); END LOOP getnames; CLOSE crs1; CLOSE crs2; END;

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0114 seconds.)

call move\_det();

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

SELECT \* FROM `crs\_patconc`

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Re

☐ Show all | Number of rows: 25 ▼ Filter rows: Search

Extra options

doctor_names	specialization
1	Neuro surgeon
3	Orthopedics
2	Orthopaedics
4	Cardiology
5	Pediatrics

# DEVELOPING A FRONTEND

×

Enter password

\*\*\*\*

Verified

Select module

Patients

Select function

Add patient

Enter edit mode password

\*\*\*\*\*

Verified

## HOSPITAL MANAGEMENT SYSTEM - PES1UG20CS044

### PATIENTS

#### ADD PATIENT

Enter patient details:

Full name

Ananya Nigam

Gender

☒ Female

☐ Male

☐ Other

Date of birth (YYYY/MM/DD)

Enter password

\*\*\*\*

Verified

Select module

Patients

Select function

Add patient

Enter edit mode password

\*\*\*\*\*

Verified

Next of kin's relation to patient

Mother

Next of kin's contact number

07875634055

Email ID (optional)

Save

Patient details saved successfully.

Your Patient ID is: P-171823-221128