



**FIREBLAZE
AI SCHOOL**

ENLIGHTEN YOUR CAREER

Mini Project - SQL

Hospital Management System

Create a Hospital Management System which has Multiple tables and relationships between the tables depending on the constraints which we are passing to connect the different tables. By using this database we will retrieve the information of particular Patients, and Doctors who are working in the Hospital.

The Hospital wants to build a database for management of all the data with all the details like medical history and diagnosis, appointments, etc.

In this project, you have to build the database from scratch. Organizations such as hospitals have to deal with a lot of patients regularly and hence a lot of data. Therefore it is very important for a hospital to have a DBMS that allows doctors or administrators to manage patient data.



Tables in the Database:

Patient	Medical History	Doctor	Appointment	Diagnose
email varchar(50) PRIMARY KEY, password varchar(30) NOT NULL, name varchar(50) NOT NULL address varchar(60) NOT NULL, gender VARCHAR(20) NOT NULL	id int PRIMARY KEY, date DATE NOT NULL, conditions VARCHAR(100) NOT NULL, surgeries VARCHAR(100) NOT NULL, medication VARCHAR(100) NOT NULL	email VARCHAR(500) primary key, gender varchar(20) NOT NULL, password varchar(30) NOT NULL, name varchar(50) NOT NULL	id int PRIMARY KEY, date DATE NOT NULL, starttime TIME NOT NULL, endtime TIME NOT NULL,	appt int NOT NULL, doctor varchar(50) NOT NULL, diagnosis varchar(40) NOT NULL, prescription varchar(50) NOT NULL, FOREIGN KEY (appt) REFERENCES Appointment (id) ON DELETE CASCADE, FOREIGN KEY (doctor) REFERENCES Doctor (email) ON DELETE CASCADE, PRIMARY KEY (appt, doctor)

Deliverables:-

- Step 1 Create all Table Structure.
- Step 2 Insert Data In The Table.
- Step 3 Solve all the Data Retrieving Problems.
- Step 4 Submit the File in PDF.



Note:

- you just have to add 15 records/rows, that means there should be only 15 rows present in your data.
- Here is example/demo of the data you have to insert in your table :

Patient

Email	Password	Name	Address	Gender
rax@gmail.com	abcd123	Rajesh	Andra pradesh	Male

Medical History

ID	DATE	CONDITION	SURGERY	MEDICATION
1	19-01-14	Body Pain	none	Iodex

Doctor

Email	Gender	Password	Name
raman@gmail.com	Male	R1234	Raman Kumar



Appointment

ID	Date	Starttime	Endtime
1	19-01-15	09:00	10:00

Diagnosis

Appt	Doctor	Diagnosis	Prescription
1	raman@gmail.com	Vitamin Deficiency	Good Diet

***After inserting the data, solve these Queries.**

- Fetch total number of patients from PATIENT Table whose gender is 'MALE' .
- Fetch address,total number of patients from PATIENT Table address-wise.
- Fetch the ID from Medical History Table where no surgeries performed.
- Fetch the gender and show total number of male and female doctors from DOCTOR Table.



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- Fetch name from PATIENT Table and Surgery from MEDICAL HISTORY Table where Surgery is 'None'.
 - Fetch the Name from PATIENT Table and Condition from MEDICAL HISTORY Table and give all the matching records.
 - Fetch Name, Address from PATIENT Table and Condition from MEDICAL HISTORY who haven't undergo any surgery.
 - Fetch all the records from APPOINTMENT and DIAGNOSIS Table (identify which join would be relevant)
 - Explain any 2 insights you generated from the data.(what did you get to know or what did you found out after analyzing the data or performing queries).
 - What is the main goal of creating a Hospital Management System?

(Deadline: 1 week)