Hospital Management System

Hospital Management System is used to manage all the hospital operations. We can perform operations such as we can add patients, assign doctor to patient, view patient details, view doctor details, add staff, view staff, assign bed to patients, view bill and payments.

My Project Includes two members

- 1. Aayush Kumar
- 2.Saurabh Ojha

Saurabh will work on Patients and Doctor Entity

Aayush will work on Staff, Bill and Payment Entity

The Hospital Management include 5 entites :-

- Patients
- Doctors
- Staff
- Bills
- Payments

Patients

- Attribues
 - 1. p_id (Primary Key)
 - 2. fname
 - 3. Iname
 - 4. gender
 - 5. disease
 - 6. admitstatus
 - 7. age
 - 8. phone_no
- Relationship
 - 1. Each patient can have only one billing record, and each billing record is associated with exactly one patient. (One-to-One)

2. Each patient can have multiple payment records, but each payment record is associated with exactly one patient. (One-to-Many)

mysql> desc patient;						
Field	Туре	Null	Key	Default	Extra	
p_id admitstatus age disease fname gender lname phone_no	varchar(255) varchar(255) int varchar(255) varchar(255) varchar(255) varchar(255) varchar(255)	NO YES YES YES YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL		
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Doctors

Attribues

- 1. d_id (Primary Key)
- 2. d_name
- 3. qualification
- 4. specilization
- 5. availability

• Relationship

 A doctor can be assigned to multiple patients, and a patient can be attended by multiple doctors. This relationship is represented by the doctors and patients tables. (Many-to-Many)

d_id	Field	+	 Null	+ Key	+ Default	 Extra
	availability d_name qualification	varchar(255) varchar(255) varchar(255)	YES YES YES	PRI	NULL NULL NULL	

Staff

Attribues

- 1. staffId (Primary Key)
- 2. fname
- 3. Iname
- 4. gender
- 5. designation
- 6. age
- 7. salary

Relationship

- 1. Staff members (like nurses or administrators) can be associated with multiple patients, and a patient can interact with multiple staff members. This relationship is represented by the staff and patients tables. (Many-to-Many)
- 2. A staff member can work with multiple doctors, and a doctor can have interactions with multiple staff members. (Many-to-Many)

mysql> desc staff;							
Field	Type	Null	Key	Default	Extra		
staffId age designation firstName gender lastName salary	varchar(255) int varchar(255) varchar(255) varchar(255) varchar(255) varchar(255)	NO NO YES YES YES YES NO	PRI	NULL NULL NULL NULL NULL NULL NULL NULL			
7 rows in set (0.00 sec)							

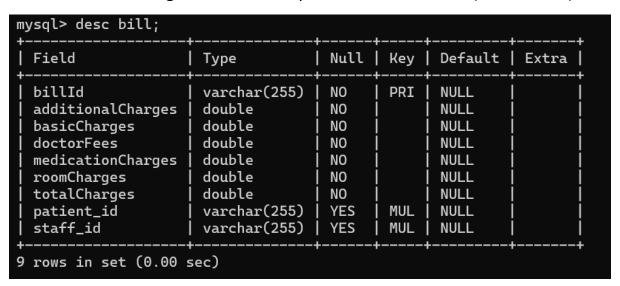
Bill

Attribues

- b_id(Primary Key)
- 2. basicCharges
- 3. additionalCharges
- 4. medicationCharges
- 5. roomCharges
- 6. doctorFees
- 7. totalCharges
- 8. patient_id(Foreign Key)

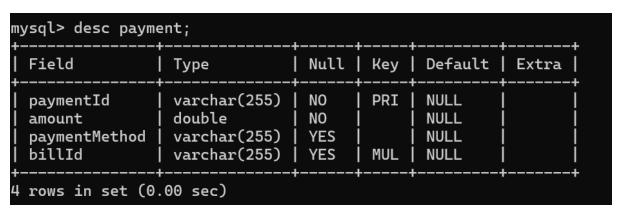
Relationship

1. Each billing record is associated with a staff member who handles the billing process. This relationship ensures that a billing record has a responsible staff member. (One-to-One)



Payment

- Attributes
 - 1. p_id (Primary Key)
 - 2. bill_id (Foreign Key)
 - 3. paymentMethod
 - 4. amount
- Relationship
 - a. many payment records is tied with one record in the Billis table.(Many- to-One)



ER Diagram

