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**DATABASE HOSPITAL MANAGEMENT SYSTEM**

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**HOSPITAL MANAGEMENT SYSTEM**

*A Hospital Management System (HMS) DBMS project helps in managing the daily operations of a hospital such as patient admission, doctor appointments, medical records, billing. Below is a detailed description of how you could structure a Hospital Management System in a database, including the tables and key features.*

*The HMS manages the entire process from patient registration to doctor appointments, diagnostics, treatments, and billing.*

**1) Entities:**

*The following are the main entities involved in the Hospital Management System:*

*Patient*

*Doctor*

*Ward/Room*

*Medical*

*Billing*

*Prescription*

***2) Entity Relationships****:*

* Doctor checks many Patients based on medical records(many\_to\_many)
* Prescription is made between a Patient and a Doctor.(one\_to\_one)
* Patient can receive multiple Treatments, each administered by a Doctor(one\_to\_many).
* Patient can be allocated to a Ward/Room during hospitalization.(one\_to\_one)
* Bill is generated for each Patient based on , Treatment, and Room charges.(one\_to\_one)
* Payment is made for the Bill

***3) Attributes (Fields of Entities):***

***Patient***

* *patient\_id (Primary Key)*
* *patient\_name*
* *age*
* *gender*
* *address*
* *contact\_info*
* *email*

***Doctor***

* *doctor\_id (Primary Key)*
* *doctor\_name*
* *specialization*
* *contact\_info*
* *email*
* *availability*
* *experience.*

***Medical***

* Record\_id(primary key)
* Patient\_id
* Doctor\_id

**Billing**

* Bill\_id
* Patient\_id
* Amount
* Payment\_status
* Bill\_date
* Payment\_method

**Rooms**

* Room\_type
* Status
* Patient

**ENTITY RELATIONSHIP DIAGRAM OF HOSPITAL MANAGEMENT SYSTEM**

ROOMS

DOCTOR

**CHECKS**

MEDICAL TABLE

**ALLOTED TO**

specialized

BILLING TABLE

**OF**

PATIENT TABLE

PRESCRIPTION TABLE

PAYS

**DESCRIBES**

**GIVES**

