**HOSPITAL DATABASE MANAGEMENT SYSTEM**

**ABSTRACT:**

My project Hospital Database Management system includes Information of patients, storing their disease details into the system.

It also contain doctor’s information. It has the facility to give a unique id for every patient and stores the details of every patient and doctors automatically.

It includes a facility to know the status of each room. User can search the details of a patient using the id.

**USE OF THIS PROJECT:**

\* A Hospital Database Management System is a computer or web based system that facilities managing the functioning of a hospital or any medical set up. This system will help in making the whole functioning paperless.

\* The hospital database includes all the necessary patient data. The disease history can be accessed without much delay in order to make an accurate diagnosis and monitor the patient's health.

\* It enables lower risks of mistakes.

\* It is a database design used for managing hospital functions and events.

\* Monitor the patient's health. It enables lower risks of mistakes.

\* It used to manage the connection between all different departments in the hospital with linked database (tables).

# PURPOSE of Hospital Database Management System:

The purpose of the Hospital Management System database Design is to make a secure and easy way of storing information of the patient, doctors, Rooms, Bill payments, and Discharge.

DESCRIPTION ABOUT CODE:

Firstly I create the Database i.e. Hospital\_Management, and then used it to store the all details about the Hospital. In this database I can store no. of tables. Here I have stored five tables. In which the tables are as follows:

1. Doctor\_Details
2. Patient\_Details
3. Room
4. Bill\_Details
5. Discharge

These above tables are interrelated having stored some common and some different information. Each table contains some columns and rows.

Actually the columns stores the structure of tables and the rows stores the real information.

We can declare any column with integer value as a Primary key of that table, and that column can not contain null value. This same column can be used as a foreign key for any other tables having related data of that column or table. This foreign key is used to link or to connect the one table to another table.

In each of the table it contains no of columns and rows. Each column should declare with datatype, it defines that the column is of which type ( eg. Int, text, varchar, date, bigint etc.) . We can insert the data into that column only with the same datatype with which we declared it.

In SQL some datatypes are there, to which we have to declare that datatype with the size limit (eg. Varchar (30)).

With this all conditions I create one Database Titled as above mentioned. The tables are also mentioned as above.

The table wise columns with datatype are as follows:

Some columns are there mentioned with NOT NULL value, it means it is compulsory to provide or to insert values for that column. No single row of that column should be with null value.

To create the table structure with column I used CREATE command

Eg. CREATE TABLE Doctor\_Details (Dr\_id int(11) primary key, Dr\_Name varchar(35), DOJ date, Department varchar(20), Gender text, Email\_ID varchar(30), Contact\_No bigint(20), Salary bigint(20));

I insert some columns later on by using ALTER command.

I can display the complete structure of the table with all column name, by using DESC command.

Like this the all tables created with their columns as given below:

1. Doctor\_Details : This table Contains some columns like Dr\_id int(11) primary key, Dr\_Name varchar(35), DOJ date, Department varchar(20), Gender text, Email\_ID varchar(30), Contact\_No bigint(20), Salary bigint(20)
2. Patient\_Details : This table Contains some columns like P\_id int(11) primary key, P\_Name varchar(40), aadhar\_no bigint(20), Gender text, room\_no int(11), DOA date, Dr\_id int(11) references Doctor\_details (Dr\_id), S\_id int(11), diseases varchar(25), Contact bigint(20), Address text, Blood\_group varchar(5), Discharge\_Date date
3. Room : Room\_no int(11) primary key, Room\_Type varchar(20), P\_id int(11) references Patient\_details (P\_id)
4. Bill\_Details : Bill\_no int(11) primary key, P\_id int(11) references Patient\_id (P\_id), Dr\_charge bigint(20), Medicine\_charge bigint(20), Room\_charge bigint(20), Operation\_charge bigint(20), Lab\_charge bigint(20), Total\_Bill bigint(20) NOT NULL, Paid\_Bill bigint(20) NOT NULL
5. Discharge : Serial\_no int(11) primary key, Bill\_no int(11) references Bill\_Details (Bill\_no), Discharge\_Date date NOT NULL, Room\_no int(11), Paid\_Bill bigint(20) NOT NULL

After creating the structure of tables I inserted the values by using INSERT command.

Eg. INSERT INTO Doctor\_Details VALUES(2, "Dr Vitthal Lahane", "2018-02-11", "ENT", "male", "vitthal.mailbox@gmail.com", 9856472124, 80000);

By using the same above INSERT command I insert all the related details to the each table. I can also insert the new rows later on in same table by using same command and same syntax.

I modify some information in rows later on by using UPDATE command.

I can display the complete table with all details/information, by using SELECT \* FROM command.

Eg. SELECT \* FROM Doctor\_Details;

Here I can create new table with CREATE command also I can delete any table with DROP command.