

Hospital Management System:

An Introduction to the Database Management System Project

Abhishek Kumar(201651003)
Dakshkumar Gondaliya(201651014)
Avkaran Singh(201651011)
Kanhaiya Lal(201651022)
Team Leader - Dakshkumar Gondaliya

Database Management System

April 15, 2018

Motivation

As We visited the hospital important records get recorded in the following manner:

Registration of patients is done by just writing the Patients name, age, and gender. Whenever the Patient comes up his information is stored freshly. Bills are generated by recording price for each facility provided to Patient on a separate sheet and at last, they all are summed up. Diagnosis information to patients is generally recorded on the document, which contains patient information. It is destroyed after some time period to decrease the paper load in the office. All this work is done manually by the receptionist and other operational staff and lot of papers are needed to be handled and taken care of on pen-paper. Doctors have to remember various medicines available for diagnosis and sometimes miss better alternatives as they can't remember them at that time. This will create many problems for the administration to handle the database like Lack of immediate retrievals, Lack of immediate information storage, Lack of prompt updating, Error prone manual calculation.

Scope of Database

The Purpose of the project entitled as "Hospital Management System" is to computerize and ignore the Data Loss of the Front Office Management of hospital to develop software which is user friendly, easy and fast to solve the different queries.

Description

The hospital management system will provide services to the hospital staff. The database will store the data of the in and outpatients, patients' medical history, special medication provided(if any) etc. Personal details of in-patients like family, address, phone number and other contact details will be recorded. It will also provide data on hospital's present infrastructure like available beds, wards, equipment etc. Staff records like available doctors, nurses, ward-boys will also be maintained. The doctors could be trainees, permanent, visiting or any kind of specialist. Their personal records, professional experience will also be maintained. List of appointments for the outpatients will be recorded. Finances of the hospitals like salaries of employees, cost of medicines, equipment, and other stuff will also be recorded. This will help to generate a bill and keep a track of the revenue generated and other finances of the hospital.

Queries

1. Find list of all patient who is treated by the doctor whose did is 'E4404' in the year 2015.
2. Find the appointment date, contact and eid of the doctor who is appointed to meet
with appointmentno=3301
3. Give the details of Visitor='Ishan Raju' and Patient to meet.
4. Find all details of patient reports with total medicine Quantity him/her owns order
by medicine quantity in ascending order
5. Find Total medicine amount of each patient order by pid
6. List of all the medicines to patient 'P1103' by Doctor 'E4404'
7. Find list of EID,Ename,DOB,DOJ,Salary,Gender of employee doctors with
salary \geq 90,000
8. Give all the details about test reports of patients treated by Doctor 'E4404' or 'E4406'
9. Find visitorID, VisitorName who were coming to meet PID='P1103' or 'P1104'
10. List all the types of doctors and the count of each type.
11. Find name of patient(s) who is/are treated by doctor whose employee id is 'E4404'
12. List all patients in ward number W2001 sorted by ascending order.
13. Give the count of number of Operations performed by Doctor E4406 on Patient P1103.
14. Find list of Doctor who performs more than 1 operations
15. List of employee whom category='Doctor' and qualification='MBBS'
16. Determine the TestList which have more than 1 test