

# 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

March 5, 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 doctor whose did is 6601 in year 2017
2. Find name of all patient who is treated by doctor whose employee id is 5502
3. Find name of the visitor coming for meeting patient 5001 or 5002
4. Find the appointment date, contact and employee id of the doctor who is appointed to meet with appointment-no 3301
5. list the name, id of out patient and details of medicine with bill-no and total amount to be paid
6. List all the details of employee doctors with salary above 10,00,000
7. List all patients in ward number 1002 sorted by increasing age
8. List all the patients being treated by doctor with ID=8001
9. Show the names of all visitors of patient with PID=3003
10. List all the medicines prescribed to patient 3003 by doctor ID=8001
11. List all the types of doctors and count no doctor of each type
12. List the details of the bill of patient 3001
13. Give the details of medicines given, tests and operations performed on the patients who have been in hospital in date range 31/01/2013 to 30/01/2017
14. Give the doc-type and Fee of all doctors who have appointments
15. Give the details of the Visitor-"Prakash" and PaitentID assigned to him
16. Give reports of patients treated by doctor DID=8001
17. count number of Operations performed by Doctor 3001 on Patient 9901