

Group-16

Title: Database for Healthcare Management System

Scope of Database:

The major aim of our project is to design a system that helps any hospital, Lab or any other medical organization to collect, store and also retrieve patient's past records and information more efficiently and enable better care for patients.

When any person is registering for a birth certificate, at that particular time, we are providing a Health card to that person. So we are keeping track of the person's medical history by birth.

Any doctor can get a complete idea of the patient's medical history.

Example- If a patient is from Ahmedabad and going on a small trip to Kerala. There some situation arises when he/she needs to visit a hospital.

So, with the help of a healthcard_id of that person, a doctor can retrieve a patient's medical history.

The medical history will include Case_id, disease, hospital and lab reports, year, and also medical prescriptions given by a doctor.

Our database will also help in the analysis of the number of cases of a particular disease, their percentage increase or decrease, in a particular state or city.

Description/Requirements:

- A person while registering for a birth certificate will also be provided, Health Card.
- A person will have details like FirstName, MiddleName, LastName, DOB, Gender, Parent_Name, Address, Blood Group, and HealthCard_Id.
- A person will have a health card which will have a medical history.
- Hospitals are registered with Hospital_ID and have details like Hospital_Name, Address, and Contact_no.
- Labs are registered with Lab_ID, Lab_Name, Address, and Contact_No.
- Doctors are registered with Doc_ID, Name, Address, Hospital_ID and Contact_No.
- Each hospital registered will be provided their database which includes Hospital_ID and Patient's medical details like HealthCard_ID, Case_ID, Disease_ID, Doctor_ID,

date, year, Insurance_company_Id, Insurance_policy_id, Case_Description and Medical prescriptions.

- Every disease has Disease_ID, Disease_Name and Disease_description.
- Insurance_Company has Company_ID and Company_Name.
- Each company will have Policy_ID, Policy_Name, and Policy_Description.
- Health card will contain details of hospital,lab and insurance company and insurance policy(if a person has any).
- One patient might have none, one or more than one disease.
- One disease can be affected to more than one person.
- A person can take one insurance policy at a time.
- One insurance policy can be allotted to more than one person.
- Each Lab has its private database which includes the patient's HealthCard_ID, Lab Reports, Date, and Year.
- If a person is visiting the same hospital for more than one time, they will be provided another Case_ID for his/her treatment.

Queries that the database system should be able to answer:

1. Retrieve the medical details of the patient having the healthcard_id=1.
2. Retrieve the names of the patients and the diseases that patient has suffered.
3. Count the number of people suffering from a particular disease.
4. Retrieve the names of the patients and the year when they have suffered from the disease 'asthma'.
5. Retrieve the names of the insurance companies and the policies provided by them.
6. Count the number of patients who have taken a particular Insurance Policy.
7. Count total number patients admitted to a particular hospital in a particular year
8. Count total number of patients in all hospitals
9. Retrieve the contact number of the hospital located in MP.
10. Retrieve the contact number of the doctor who treated in the private hospital Unique Hospital.
11. Find the name of the hospitals who have their centers in navrangpura.
12. Find the name of the hospital in which the patient having the healthcard ID as 1 got treatment in the year 2014.
13. Retrieve names of patients who are suffering from more than one diseases
14. Retrieve the data of patient of Asthma disease
15. Display all addresses of all registered hospitals
16. Display details of patients who have consulted Dr. Umang Patel or Dr. Vijay Kumar
17. Display the number of patients who have visited particular laboratories on a particular date
18. Count the number of particular diseases in a particular year.
19. Medical history of a particular patient
20. List number of cases of a particular hospital.

21. Retrieve only those case id(s) which used insurance policy -Jivan Anand [201].
22. Retrieve the data of patients having disease id as 1001.
23. Find the names of the laboratories who have their centers in 'Paldi'.
24. Find the first name and last name of the person who has no medical history.
25. Find the names of the hospitals and the number of their centers in ahmedabad.
26. Find the total number of centers of 'medilink hospital'.
27. Retrieve the name(s) of hospital(s) that accepts all insurance policy