## ASSIGNIENT

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- Comprehensive hospital management system database develop a hospital database to manage patient record etc.

Building a hospital managment system (HMS) data base involves

## (i) FR Diagram design:

- -> Patient = stores patient information.
- -) Doctor = stores doctor details, including schedules.
- -) Appointment = Connect patient and doctor
- -> Treatment = list treatment provieds to patient
- -) Billing = Records all billing information
- -) Lab test = store lab test result connected to Patient
- (:i) Table defination:

Patients table

create table patient (

Patient-id int primary key,

first\_ name Rahul (60),

last - name Reddy (50),

dob Date,

contact\_number VARCHAR(IS),

```
Doctor table
Create table Doctors (
   doctor id int primary key,
  fisst_ name VAR (50),
  last - name VAR (50),
  & pecilization VAR (50),
  Schedule JSON
 Lab test table
create table (
 test-id int primary key,
 Patient - id int,
test-name key(so),
test-date date,
result text
(iii) SQL queries
-) Billing reports
Select P. first-name, P. last-name, b. amount,
 b. bill-date b. Payment - status
From Billing b
Join Patients Ponb. Patient-id = P. Patient-id
ORDER BY b. bill - date DESC;
"This structure should require all core requirments
```

o Retrieve patient medical histories

Select P. Patient - id, P. first - name, t. treatment

- date, t. diagonsis, t. procedure

FROM Patient P

JOIN Treatment ton P. Patient-id = t. patient-id

Where P. Patient-id=?;

-) Find doctor availability

Select doctor-id, first-name, last-name, schedule

FROM Doctors

WHERE specialization = ?;

(iv) Role-based access control:

GRANT SELECT ON Patient To (doctor - sole);

GRANT SELECT, UPDATE ON Appointment TO

(doctor-role);

GRANT SELECT ON Patient To (nurse - role);

GRANT SELECT ON Treatment To (nurse-role);

GRANT ALL PRIVILEGS ON', To admin-role'

```
CV) Billing

DELIMITER/I

CREATE PROCEDURE Discharge patient

(IN patient_id INT)

Begin

VPDATE Billing set bill-date = CURDATEC)

VPDATE Appoinment set satuts = 'Discharged'

Where Patient_id = Patient_id;

END II
```

DELIMITER1,