## J. Domain / Scenario chosen:-Hospital Management System

of Data Description: -

- · Patient: Potient\_ID, Name, Age, Grender, Contact, Address, Disease, Admit\_date, discharge-date
- · Doctor: Doctor\_ID, Name, Specialization, Contact, department, Shift.
- · Appointment: Appointment ID, Patient ID, Doctor ID, Date, time, Status.
- · Treatment / Prescription: Irrestment\_ID, Patient\_ID,

  Doctor\_ID, Medicine, Desage, Duration
  - · Billing: Bill\_ID, Patient\_ID, Total\_Amount, Payment\_Status,
    Payment\_Date.

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3 Types of users

- I Admin Staff: Manage patient necords, billing and neports
- 3 Doctors: View patients, update treatment and prescriptions
- 3 Nouses / word Staff: Track admitted patients, update status
- 4) Potients / Visitoris: Book appointments, check neports

- 4) Challenges Jaced in the traditional implementation

  J the system
- ->. Data redundancy and inconsistency
  - · Difficult to search and retrieve patient history
  - · No centralized access doctors, nurses and admin work in isolation.
  - · Marual report generation is slow and evror-pron
  - · Security and prinary issues Jos patient data.
- 5] How DBMS Helps Overcome challenges
  - · Centralized database ensure data consistercy
  - · Easy retrieval of patient and doctor records using queries.
  - · Data security with user authentication and authorization (DCI)
  - · Reduced redundancy via normalization
  - · Quick neporting with 801 queries and views
  - · Concurrent access for doctors, nurses and admin staff

Similar I regard is tall to train the solution of more properly and

Romania Michael Sent application to

of List of tables in the system. 7 Patients 2) Doctors 3 Appointments 4] Treatments / Porescriptions (Si) ANHOAGV Fro 3) Billing. FOIL TOHILFALL highter 7) Schena Jose Each Table / Relation 1) Patients Table Create Table Portients ( Podient\_ID INT PRIMARY KEY, Name VARCHAR (100) NOT NULL, Age INT, GIENDER CHAR (1); Contact VARCHAR (15), Address VARCHAR (255); Dare Désease Vorchor (100), Admit - Date DATE, 1911) 1911 Discharge - Date DATE );

2. Doctoous Table

CREATE TABLE Doctoss (
Doctosi-ID INT PRIMARY KEY,
Name VARCHAR (100) NOT NULL,
Specialization VARCHAR (100),
Contact VARCHAR (15),
Department VARCHAR (50),
Shift VARCHAR (20)

3. Appointments Table

Coleate TABLE Appointments (

Appointment\_ID INT Posimony KEY,

Patient\_ID INT,

DOCTOR-ID INT, (1) IMHORAVI

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Date DATE,

Time TIME,

Status VARCHAR (20),

4. Toreatments Table

Create Table Treatments (
Treatment - ID INT TRIMARY KEY,
Patient - ID INT,
Doctor - ID INT,
Medicine VARCHAR (100),
Dosage VARCHAR (50).
Duration VARCHAR (50),

S. Billing Table

CREATE TABLE Billing (

Bill-ID INT BPRIMARY KEY,

Patient - ID INT,

Total - Amount DECIMAL (10,2)

Payment - Status VARCHAR (20),

Payment - Date DATE,