Conceptual Design using ER Model - Healthcare Management system Devoloping the conceptual design using ER Model - Healtheare Management system step1: Problem understanding & requirement dualysis - Analyze the real-world rapplication: Health case + understand the domain: Hospitals, patients, Doctor, Appointments, prescriptions. step 2: Edentify Major Entities *These are core domponents representing objects patient, Docta, Appointment, prescription, rediune, Department. step 3: I dentify Attributes for Each Entity Entity Attributes; Patient: Patient 10 (PK), Name, Age, Gender, phone Dates 10 (PK), Name, contact no, algorithment ID(FK) Appointment: Appointment 10 (PK), patient 10 (FK), Pate prescription: Prescription (PK), Name, Notes, Diagnosis Step4: Define Relationships between Intities books one or more Appointments donduits many Appointments * A patient * A data

Doctor Aleciular specializa (1:N) condestanding & some ne Londard world coppliation: 1000 Appointment waspet i mission. It brother to a appointment priscaplion. Includes Department) The are car components of Falsont, Foots, Appintment, prescripton. two entrong of Name with si Appointment 10 ((ii) 10 at white quit was I is que. Depart ment Medicine ID (PK), Nome tys OI mustal (1:N) redicine oringe Della Mollar (M), put of 10 07,0,10 President President Manfactures Strange Court institutions 1991 Hope Relaterating helicon of 1811 a highward book our now of productions a diata undula many special sate

* In prescription includes many medicines * of data belongs to one department. steps: Draw ER Diagram rusing draw.io instructions: * open https://draw.10 + celiase Blank diagram -> eliek create + from left panel, drag the following * Use rectanges for Entities, ellepses for Attributes, cliamonds for relationships. * connect eving lines: * sold lines for outotionship connectors * Use PK or underline to dente Primary key * Use labels such as (1:N), (M:N), etc Example relationships: * Patient (1) - books -> (M) Appointment * Datos (1) - conduits -> UN Appointment Appointment (1) -> generates -> (1) Prexciption * Prescription (1) - includes -> (M) redicine Real-time Health core system scenario. User requirements. Patabase design Rules.

Entity Relationship Diagram (ERD) that clearly shows; All identified entities, with attributes All relationship with appropriate Cordinaties Foreign keys and keys marked appropriately + Even left points, duce the pollecing · Us restorages for Enterted, Elepse po Attentiones. diamendo for entitlementapes. + downest desired lines: + which lines too vactationship was not took . the of underline to donde Phiray in + Use Makels would as (1: N). (M:N), etc. : Existraler expressions igs: * Policent in a docks - CM represent * Dates (1) - Mondeuto - 5140 .- 47 ... expectment (1) - retorates - (1) frevering 2 1- Marighton (1) - indusion - 07 (1) Marighton Keal-time Health see sympose - 100 10 200 Uses sugarion in to Patalone design (21) ..

Result: Thus, conceptual clesign using ER Model · heathcare Mangement system was completed VEL TECH EX NO. PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) TOTAL (20) SIGN WITH DATE Result: This task helped us understand the importance of somegnent. Using draws nonagement. Using draws somegnent (we were able to virually model a real time health core system into on Ex diagram, which forms
the foundation for vielational schema design in next phase

bront Billing FIST_rame st - name billing_id Patient-id addr.ph mount plene_no billing-olde Payment - Status Appointment _id Dit - rame pation tid exto-id appointment b Status

8 08/25 Task 1.1 1.2 Convert ER Diagram into Relation Model Aim; To convert ER diagram into Relation Model Algorithm: steps you converting se diagram to the lable * Entity type becomes a table * All single -valued attributes decomes a column * It key attribute of the Entity type supresented by the * The multivalued cattributes is represented by a * composite attribute represented by components · Derived attributes represented by components . eving these rules, you can convert GR diagram to tables & columns & ourgn mapping dateles. VEL TECH PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) TOTAL (20) Result: Thus we commented the diagram into Relation rockel sucampelly. Thus, converting ER diagram into Blations rodel was completed