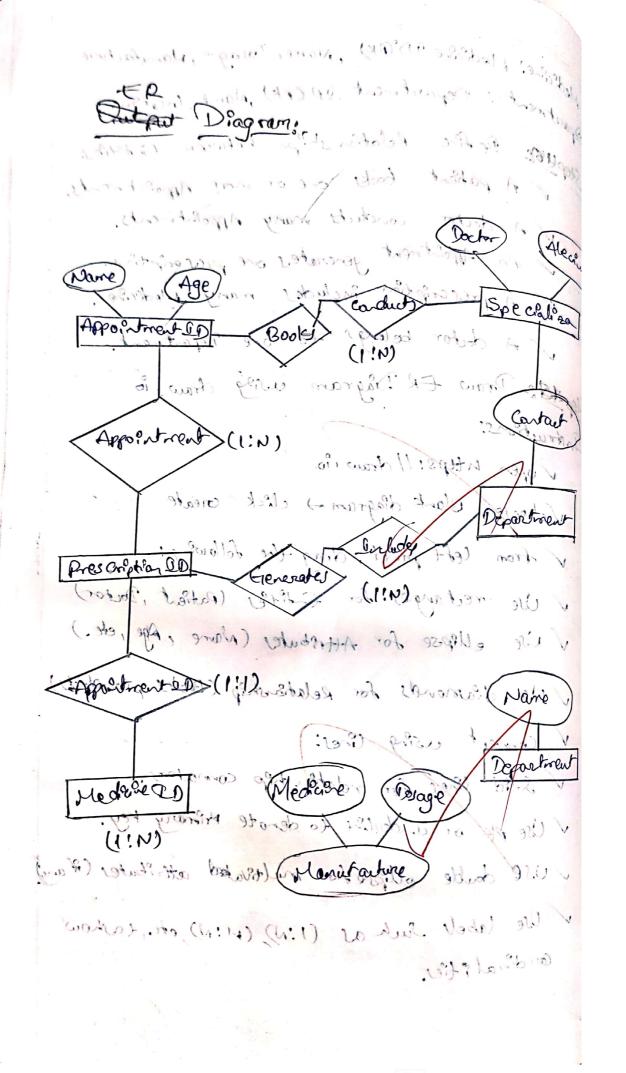
Task-1 Date 6-29/07/2025 Conceptual Design wing ER Hodel - Health care Hangement System. Tools Required: https://draw.io(or creately (ERDPLUS) steps involved in creating er Diagram Step-1: - problem Understanding Requirement Analysis I Analyze the real-world application: Health care Management System. V Understand the domain: Hospitals, patients, Doctors, Appointments, preson ptions. Step flage Edochofy Hajor Extities Entôties / one come components representing objects or concepts in the system : Patient Doctor App ointment preceiption Medio cone Department Step (18) - I dentify attribute for each whity Expende attrobuter. Entry Attributer patient: patient ID (PK), Name, Age, Gender, Phone, Addies Doctor: Doctor 10 CPK), Name, specialization, contact No. Department 20 (FK) Appointment: Appointment IO(PK), Patient SD (FK), Doctor ID (FK), Date, Time. Prescription: Prescription ID (PK), Appointment ID (fK), Diagners notes,

Medicine: Medicine ID (PK), Name, Dosage, Hanufacture Department: Department OD (PK), Name, Cocahon. Steption De fire Relationships between Endites. I A patient books one or more Appointments. along A doctor conducts many Appointments. An Appointment generales one presomption. A prescription includes many Medicanes. A doctor belongs to cone Department. Step Ho :- Draw El Diagram using draw. io Instructions: / (4:1) tomberous Vopen https://drawio Vchoose. Blank diagram - click create V from Ceft parel, drag the following: V Use rectargles! For Enditer (Patient, Doctor) V Use ellepse for Attributes (Name (Age, etc.) Ver diamonds for Relationship (Books, Conducts) V connect using thes: I soled the for relationship comochers V Use ply or underline to denote Primary Key. I USE double ellipse for multivated attributes (if any Ve label such as (1:N), (M:N), etc., tashow andinalstie.



## Example Relationships:

I Patriente 11 - 600 H -> (H) Appointment V. Doctor (1) - conducts -> (H) Appointment V Appointment (11 - generates -> (1) Prescription V Assoription (1) - includes -> (M) Medicine V Save diagram or PNG (PDF and include it in your cab report. · horaldogla

Supply for the ER Design Real-time Health cone System Scenario User Requirments (Patient Management, Doctor she duling, Medical Records ) Database Design Rules (Intoty - Attrobute Relationallip idento Escation)

Output

Entity Relationship Diagram (FRO) that clearly shows:

identified entitles with attributes.

All relation ships is with appropriate VEI at Esteral they foreign Keys norted app ropmatistialissis (5) Result:

-this last helped is understand the importance of costep tual design in obtatore managementituing draw. ?o, we were able to virually model a real-time health care Syrtem into an ER diagram, which toms the foundation for relational scheme terge in the next phase.

Example repoperty plos: - Dragram: Mr (11) (- 1) and in Dector of the could Name Appointment ( Cooks) Conduct Jose d'agram as Pater (PDF and exclude se s . Fregor das Cartet Appointment i og usinant (rationt inderedent, Doctor More their medicine Hane easth atthough medo, line 60 0 leys marked appropriately. 4.8 - (ast colped us untastand the months of of contention of whitere was gon end terred and los or a labor Meuros able to visually made or ear time. bealth case futer ento an ER disgram while son 201-5 get made land 100 rob , 840 mod 10)

Date: - 28/7/25 Task that - Convert ER Diagram into Relational al property of model. Afinis- le convert que ER d'agram auto Relational model. Skyr for conventing the ER diagram to the table: 19pm +3 · Fifty type become a table. · All single - valued attributes becomes à Column for the table A key attitute of the entoty type represent by the primary key. · The fruits valued afterbuter is stepresented by a Seperate table components. · Denived attributes are not considered in the table . using there voyde, you can convert the ER deagram to table and colorum and assign the mapping to for the tables. Pashe structure for the given the diagram is as below, Datoh robor canally a tuber ! OSTUDIES YA C. P. sobro perpent Baky Joseph Depot burbon transport His tworker

