Ittle: Goncephal Design using ER model - Health cone moragement system took negatived

Stops involved in Greating ER Diagram

stop! Poublem understanding & Requirement Analysis

\* Analysse the seal-world application Healthoone management
System

\* Understand the domain: Hospitals, potients, Doctors, Appointment
Brescriptions.

stepa: Identify major Entities

Entitles one One Components neponesenting objects on Concepts in the system

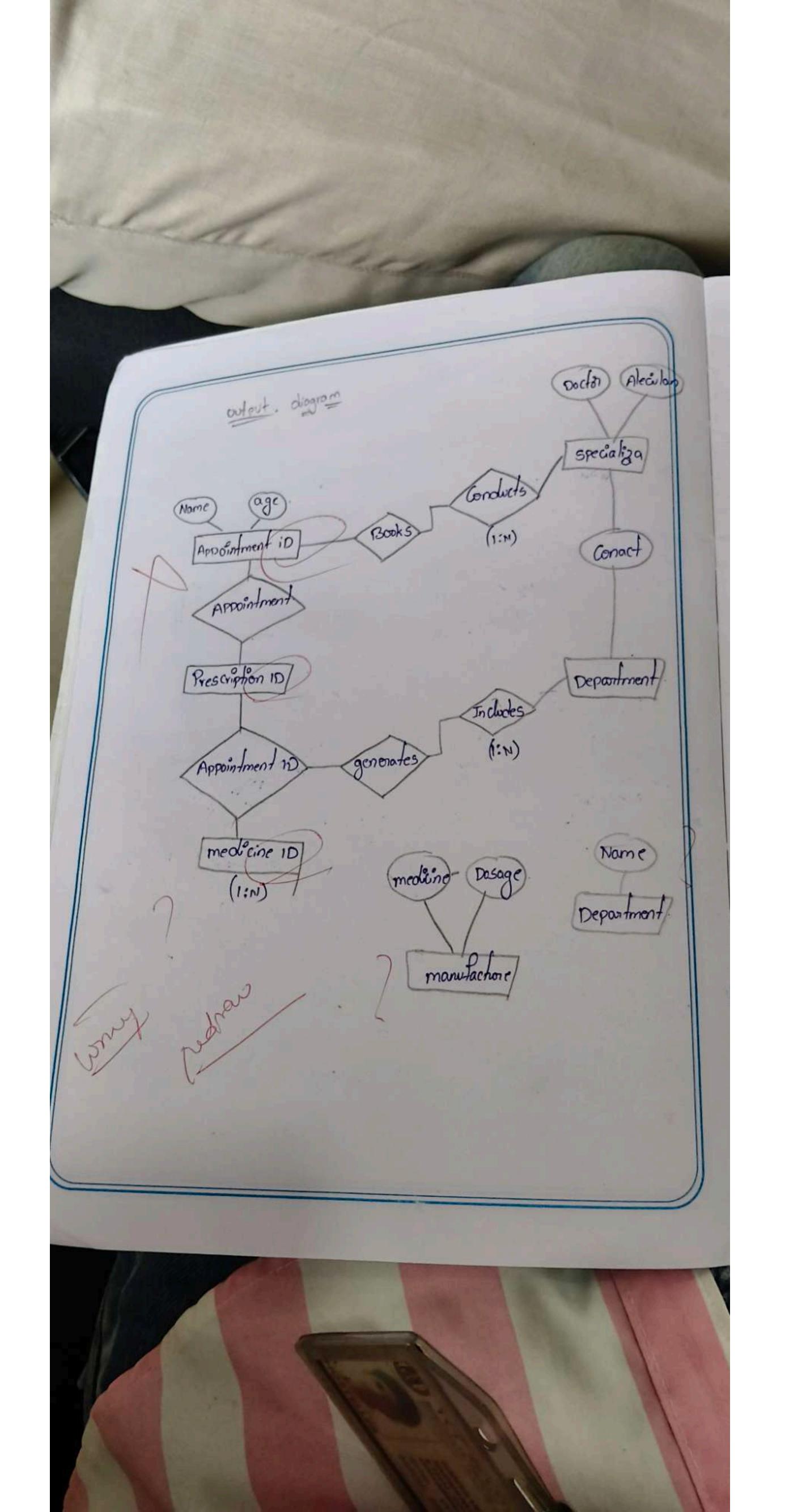
- System.
- · Docton
- · Appointment
- · Poresouption
- · medicine.
- · Department.

3-tep 3:-

En attributes

Entiry Attributes

Patient: patient 10 (Pk). Name, Age, gender, phone, Address.



Doctor: Doctor ID (PK), Name, Specialization, ContacNo, Deportment ID.

Appointment: Appointment ID (PK), Patient ID (FK), Doctor ID (FK), Dorte,

time prescription: Prescription ID (PK), Appointment ID (FK), Diagnos

notes medicine: Medicine ID (PK), Name, Dosage, Manufacture.

Department: Department ID (PK), Name, Location

Stepy' Define Rebtionship blu Entities

\* A gatient books one of mole Appointments

\* A Doctor Conducts many Appointments

\* An Appointment generates one posesociption

\* A poresociption includes many medicines

\* A Doctor belongs to one Department.

Step5: Deaw ER Diagram using draw.io.

1995tructions:

\* Open https://obaw.io.

\* Choose Blank d'agram -> click Greate.

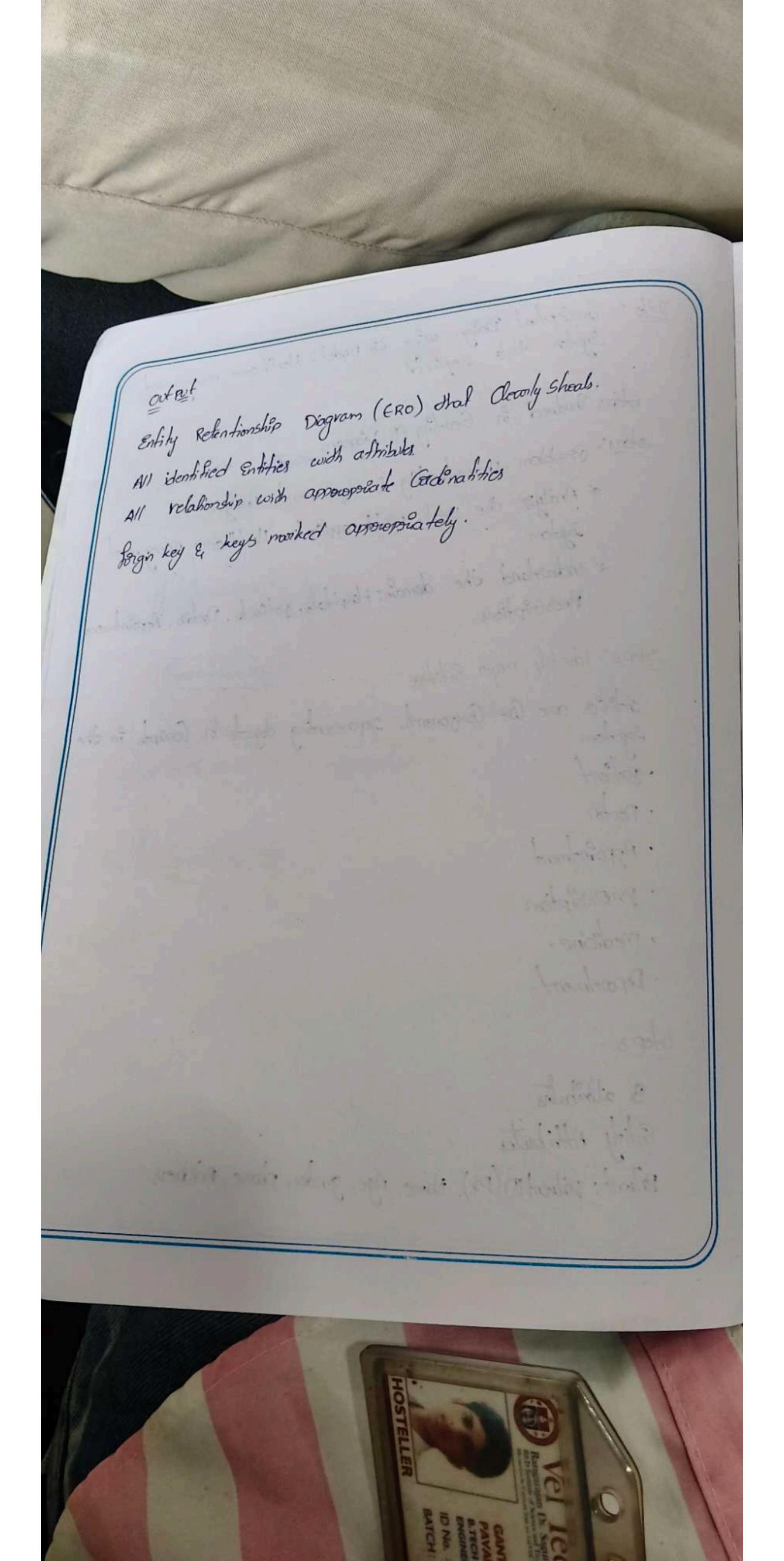
\* From left panel, dog the following.

\* Use nectongles For Entities (gatient, Doctor)

\* Use ellipses for Attributes (Name, Age, etc.)

\* use d'amonds for Relationships (Books, Conducts)

\* Connect wing lines.



\* use pk & underline to denote pourroug key.

\* use double ellipse for multivalued attributes (if any)

\* use labels such as (1:N), (m:N) etc. to show Goodinlities

## Example enelationships.

- \* Patient(1) books -> (m) Appointment.
- \* Doctor (1) Conducts (m) Appointment.
- 4 Appointment (1)\_ generates -) (i) Posescription
- \* Presorption(1)\_ includes \_) (m) medicine.
- \* Save diagram as pNG/PDF and include in your lab neport.

## Input to the ER Design!

Real-Home Heathcorne System Scenario.

Wer Requirements Cratient mangement, Octor

On-labore Design Rules.

EX NO.

PERFORMANCE (5)

RESULT AND ANALYSIS (5)

VIVA VOCE (5)

RECORD (5)

TOTAL (20)

SIGN WITH DATE

61. 1 x400

Randon

Breeze - Leis

Joseph Leel

19/1

Rosult!-

This task helped us understand the importance of Conceptual design in detabase management using draw io we were able to visually model a soul-time health case system into an fR diagram.

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builling-id.

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doctor-id
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Specialization
Schedule

appointment - id

patient - id

doctor - id

appointment - id

status.

1.8: Convert ER Diagram into Relational model. Aimi- Conseif ER Diagram into Relational model -) Entity type becomes a table. -) All single valued aftribute becomes a colum for the table -) A key attribute of the Entity type reposescrited by the -) The multivatured attribute suppresented by a separate table -) Composite attribute suppresented by Components. -) Derived attributes are not Considered into table -) using these rales, you an Concert the FR diagram to table & Columns & assign the mapping owere the tubbles VEL TECH EX NO. PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) TOTAL (26) SIGN WITH DATE

Result: Thus Convoit ER diagram into relational modal is accessfully Completed