Tark 1.1: computal design using ER model. Health care Management system

Required: POOLS

https://draw.in (or creately IEOR plus).

piagram ER involved in creating Steps

step 1: Problem understanding of Requisiement Analysi

Analyze the real-world application:

management gystem. Healthrane

understand the domain: Hospitals patients

appointment descriptions. Doctors

Identify major entities

components representing cose Entities are

the system. -(a) concepts in dieds

patient

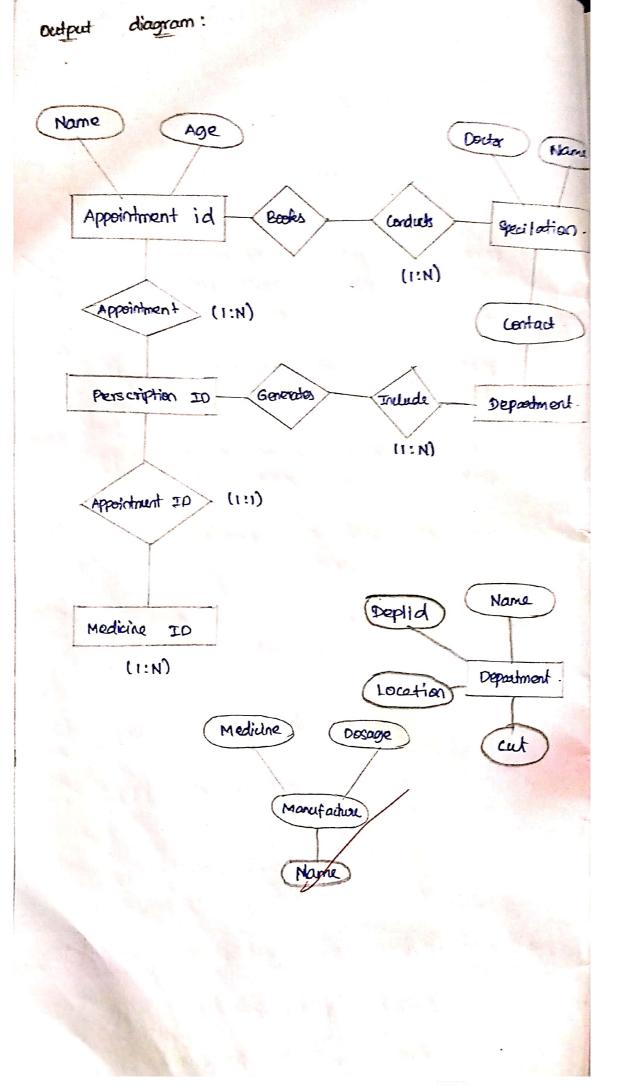
Doctor

appointment

Description

medicine

Deportment.



step 3: Identify Attributes

Example attributes

Entity Attributes

Patient: Patient (DCPK)... Name, age, gender, phone, address.

Doctor: Doctor ID(PK)... Name, specialization, contact no, department ID (FK)

Appointment: Appointment ID (pk), patient ID(A) Doctor ID (FK), date, time.

Description: Description ID (PK), Appointment ID (FK), diagnosis, Notes.

medicine! medicine ID (pr.) ... Name, dosage,

manufacture.

pepantment; Department ID (DK), Name,

location

step 4: cefine pobotionships between entitles. patient books one or more appointments. doctor conducts many appointments. A appointment generates one description Α Doctor belongs to one department. A

diagrams wing draw to Instruction 5 : Draw ER https: 11 draw.io. open choose blank diagram -> click create. left pannel, drag the following. From for entities (patient, doctor). rectangle use for attributes (Name, age, etc). Ellipse for relations hips (Books, contact) use diamonds use lines: connect. for relationship connectors. pnieu pk (or) underline to denote primary solid

use double ellipse for multivalued Key . use attributes such as (1:N), (M:N), labels Use coodinalities.

show to etc...

Relationship: Example

include

patient (1) - Books -> (M) Appointment. (1) - conducts -> (M) Appointment. Doctor Appointment (1) - generates -> (1) pescription. prescription (1) - includes -> (M) medicine. diagram as png/ppf and save in your lab report. it

traiped for on ER pesign: Real - time health case system sunario. User raquirements (patient management, doctor scheduling, medical records). Database design rules l'Entity attributes relationship identification). The of improper Clayer WFINE Deportment VARCHAI for output : Entity Relationship diagram (ERD) that Address WE CHIE clearly shows: All identified entities with attributes. relations lips with appropriate cardinalism student in the Foreign keys and keys marked appropriate VELTECH VILL TECH - CSE MIDIA EX No. PERFORMANCE (5), PERFORMANCE (5) RESULT AND ANALYSIS (3) RESULT AND ANALYSIS (5) VIVA VOCE (5) VIVA VOCE (3) RECORD (5) RECORD (4) 11 TOTAL (20) TOTAL (15) SIGNWITH DATE SIGN WITH DATE - 40h Result: This task holped us understand the importance bactures conceptual design in database management wing draw io up are able to usually model a real-time heath one system into a ER diagram which forms foundation for relational schame design in nert phase. the

Task 1.2: convert the ER Diagram INT Relational

Aim: To Design the ER Diagram from the subsel Relational model.

Step for converting ER diagram to the reaction of model:

* Entity type become a table.

*All single-rature attributes become a column for the table.

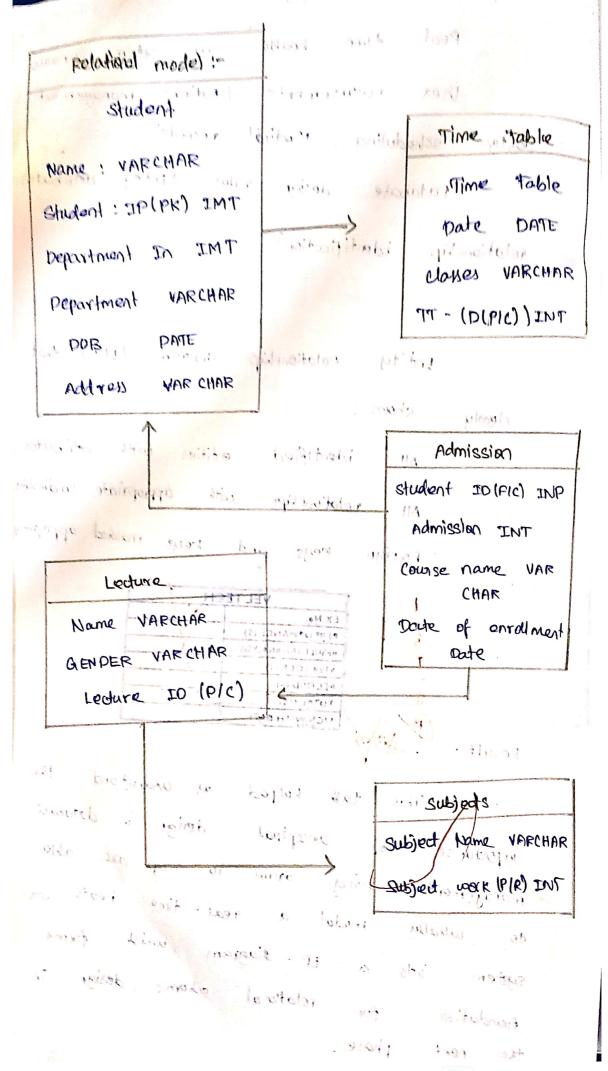
*A key attribute of the entity type represented by primary key

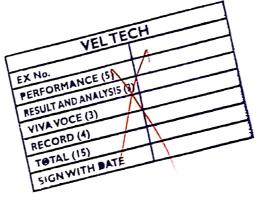
*The multi valued attribute is represented by a sepanate table.

A Composite -attribute represent by component

in the table

Using there rules, you can convert the FER Diagram to tables of unbalanced design the mapping between the tables.





relation model for the given Result: The was successfully converted. ER diagram