TASK 1.1:

COLLEGE SLOT BOOKENG AND MANAGEMENT

DATABASE.

Titli
Conephal Design using ER Model. college

Slot booking and management system.

Tools Required:

https://draw.io.

Steps involved in creating ER Diagram

Stepli-

* problem Understanding & Requirement analysis.

**Analyse real world application; college Slot

booking and management system.

« Understanding domain: STUDENT, DEPARTMENT, COURSE, SLOT.

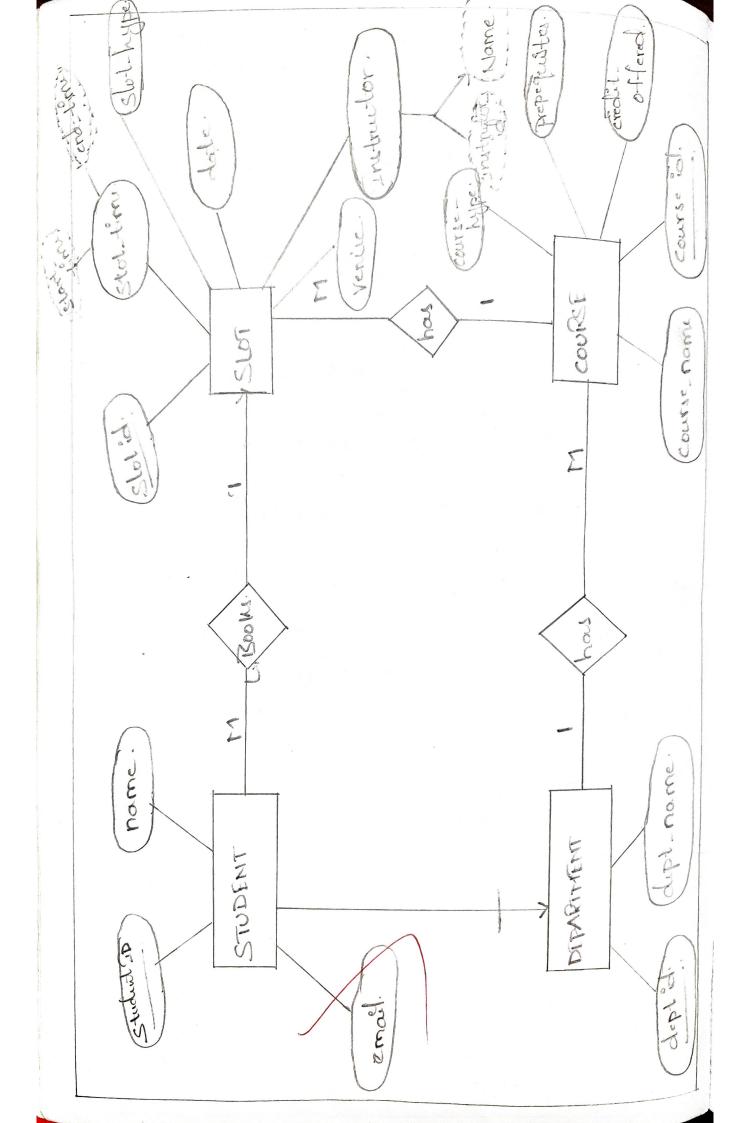
Stepzin

- * Identity Major entities.
- & STUDENT
- * DEPARTMENT
- * COURSE
- * Slot.

Step 32-

- * Intity Attributes.
- STUDENT: Studied-id(PK); name, email, academicy
- +DEPARTMENT: dept sid (PI); dept-name.
- + course: course-id(DIX), course name, creditsoffered. Prerequistes, course hype.
- + SLOT: Slot-d(PK) Slot-time, Instructor, date,

slot-hype, venue



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Step 4:-
~ A Student has one objectment.
- one department has many courses.
- A course has many slots.
- one or more student chooses one slot.
Step 5:-
- Draw ER diagram using drawio.
- open https://draw.io
- Choose Blank Diagram > click create.
~ From Left panel, drap the following:
~ Use rectangle for Entitles (STUDENT, DEPARTMENT
« Use ellipse for Attributes (studentid, dept.id)
Le Use d'amonds for Relationships (has, books)
-v connect using 'Enus.'
Solid lines for relationship connectors.
- USE PK or underline to denote primary key.
y us - double ellipse for multivalued attributes (it any).
- Use labels such as (1:N), (M:N), etc, to show
cardinaties.
Step 6°-
     Relationships:-
-> Student (1) -> (1) Department
- Department (1)- hous - (11) courses.
- Course (1) - has ->(17) Slots.
- Student (M) - Books + (1) Slot.
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College Slot Booking System manages
Student registering for courses in scholuly
Slots and rooms, Scenario user requirements.

Output:—
Entity Relationship Diagram that charlys how Entity Relationship Diagram that charlys how All identified entities with attributes.

All relationships with appropriate condinalities.

VEL TECH

EX NO.

PERFORMANCE (5)

RESULT AND ANALYSIS (5)

VIVA VOCE (5)

RECORD (5)

TOTAL (20)

SIGN WITH DATE

Resulti-

914- 020m)

This task helped us to understand the importance of conceptual design in database systems. Using drawio, were user able to visually model a real-time. College slot book and management system' into ER diagram.

Student Department Student iden dept.id(pi) email dept-rome acadimic prequistes. year Course type Slot. Slot-d(PK) Slot_type Instructor date Slot-type Venue a who morpoid se otal matage tremerge

TASK 1.2:-CONVERT ER DIAGRAM INTO RELATIONAL MODEL.

AIM:-

To Draw ER diagram for collige slot management.

Steps for converting the ER Diagram to the table

- «Entity type becomes a table.
- « All single-valued attribute becomes a coloumn for the table.
- * A key attribute of the critity type represented by the primary key.
- * The multivalued attribute is represented by a Seperate table.
- « Derived attributes are not considered in the table

VEL TECH	
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RECORD (5)	
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SIGN WITH DATE	1
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Tresulti-

Hence, the relationship model of golfage Slot booking & monagement wing ER model was completed.