

CS457- Data Modeling and Implementation Techniques

Student Union of University

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Overview

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- ▶ Benefits of student union
- Overview of ER Diagram
- Components of ER Diagram
- Advantages of ER Diagram
- Entities
- ▶ ER Diagram
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Introduction

- ▶ It is non-profit organization govern by student or alumni
- Offers services to help current students
- Organize activities, enhancement workshops, volunteering opportunities to make university life to enjoy

Benefits of Student Union

- Student will learn more about their self
- Develop soft skills
- Learn how to work with a team
- Get networking opportunities
- ▶ Learn how to engage with diverse groups of people
- ▶ To have fun

Overview of ER Diagram

- ▶ Best tool to communicate with system.
- Provides graphical representation of data and information.
- Used in business organization to make data travel easy.
- Present relation of the various database table.

Components of ER Diagram

- ▶ Entity: An entity is an object or concept about which user want to store information.
- Attribute: A property or characteristic of an entity. Often represented as an oval or circle.
- ▶ Relationship: How entities act upon each other or are associated with each other.
- Cardinality: Specifies how many instances of an entity relate to one instance of another entity.

Advantages of ER Diagram

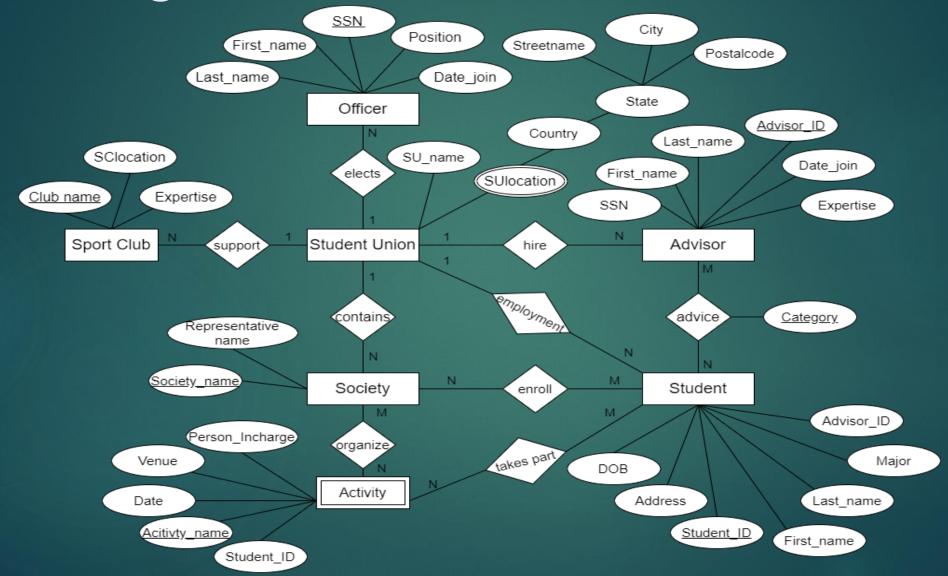
- Visual Representation of layout.
- ▶ Effective communication of data.
- Easy to Understand of flow of data and information.
- ▶ High Flexibility to make out relationship between tables.

Entities

- ▶ Student Union: <u>SUname</u>, SUlocation, Country, State, City, Streetname, Postal code
- ▶ Officer: <u>SSN</u>, Firstname, Lastname, Position, Date_join
- ▶ Sport Club: <u>Clubname</u>, Sclocation, Expertise
- Advisor: Advisor ID, Firstname, Lastname, SSN, Date_join, Expertise
- Student: Student_ID, Firstname, Lastname, DOB, Address, Major, Advisor_ID
- Society: Society_name, Rname(Representative name)
- Activity: <u>Activity_name</u>, Student_ID, Date, Venue, Person_Incharge

Attribute name: Key Attribute

ER Diagram



Explanation of ER Diagram

- Student Union elects Officer: (1 : N)
- Student Union support Sport club: (1 : N)
- Student Union hire Advisor: (1 : N)
- Advisor advice Student: (M:N)
- Student Union contains Society: (1 : N)
- Student enroll Society: (M:N)
- Society organize Activity: (M:N)
- Student takespart Activity: (M:N)
- Student Union employment Student: (1 : N)



Question?

Thank You

