

DATA BASE MODELLING USING ENTITY RELATIONSHIP MODELLING

SONY P, Assistant Professor

Model Engineering College

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1 ER model

2 Entity

ER model

- ① High level conceptual data model
- ② It is used for conceptual data design of database applications
- ③ Collection of **Entities** and **relationship** between them
- ④ Diagrammatic representation and easy to understand for non technical users

Entities

- 1 The basic concept that the ER model represents is an entity, which is a thing or object in the real world with an independent existence
- 2 An entity may be an object with a **physical existence** (for example, a particular person, car, house, or employee) or it may be an object with a **conceptual existence** (for instance, a company, a job, or a university course)
- 3 Entity is distinguished from other objects on basis of **attributes**

Entity Type

- 1 The entity type is a collection of the entity having similar attributes.
- 2 an entity type in an ER diagram is defined by a **name and a set of attributes**
- 3 We use a **rectangle** to represent an entity type in the E-R diagram, not entity.

Example: **Student**(name, Age, Admn No), **Course**(Cname, Cduration)

Entity Types, Entity Sets, Keys, and Value Sets

■ Entity type

- Collection (or set) of entities that have the same attributes

