

Mapping

ER model to Relational model

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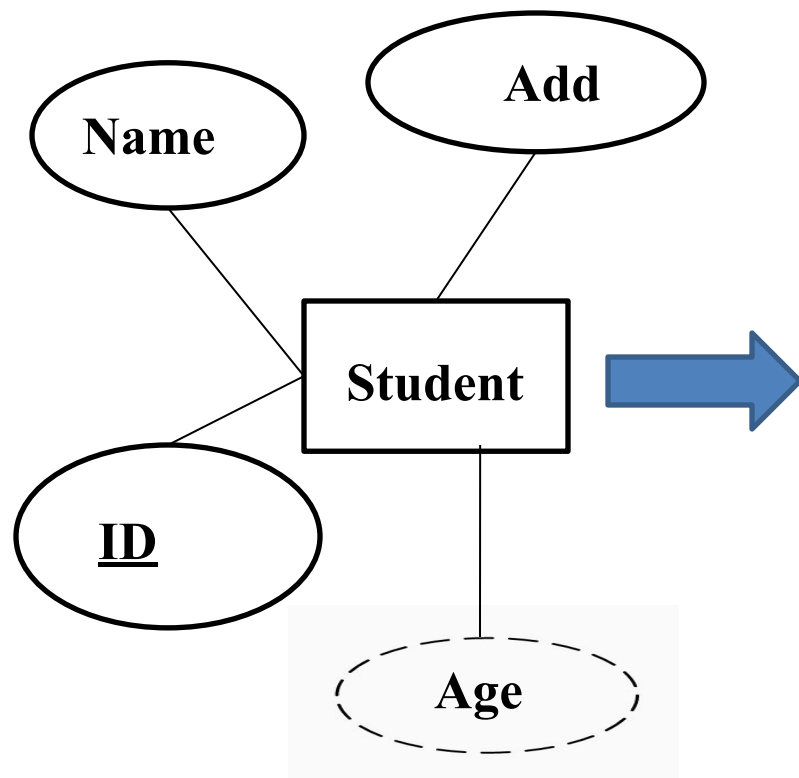


Mapping Entity

- **Mapping Process (Algorithm)**

- Create table for each entity.
- Entity's attributes should become fields of tables with their respective data types.
- Declare primary key.

Mapping Entity- Example



Student

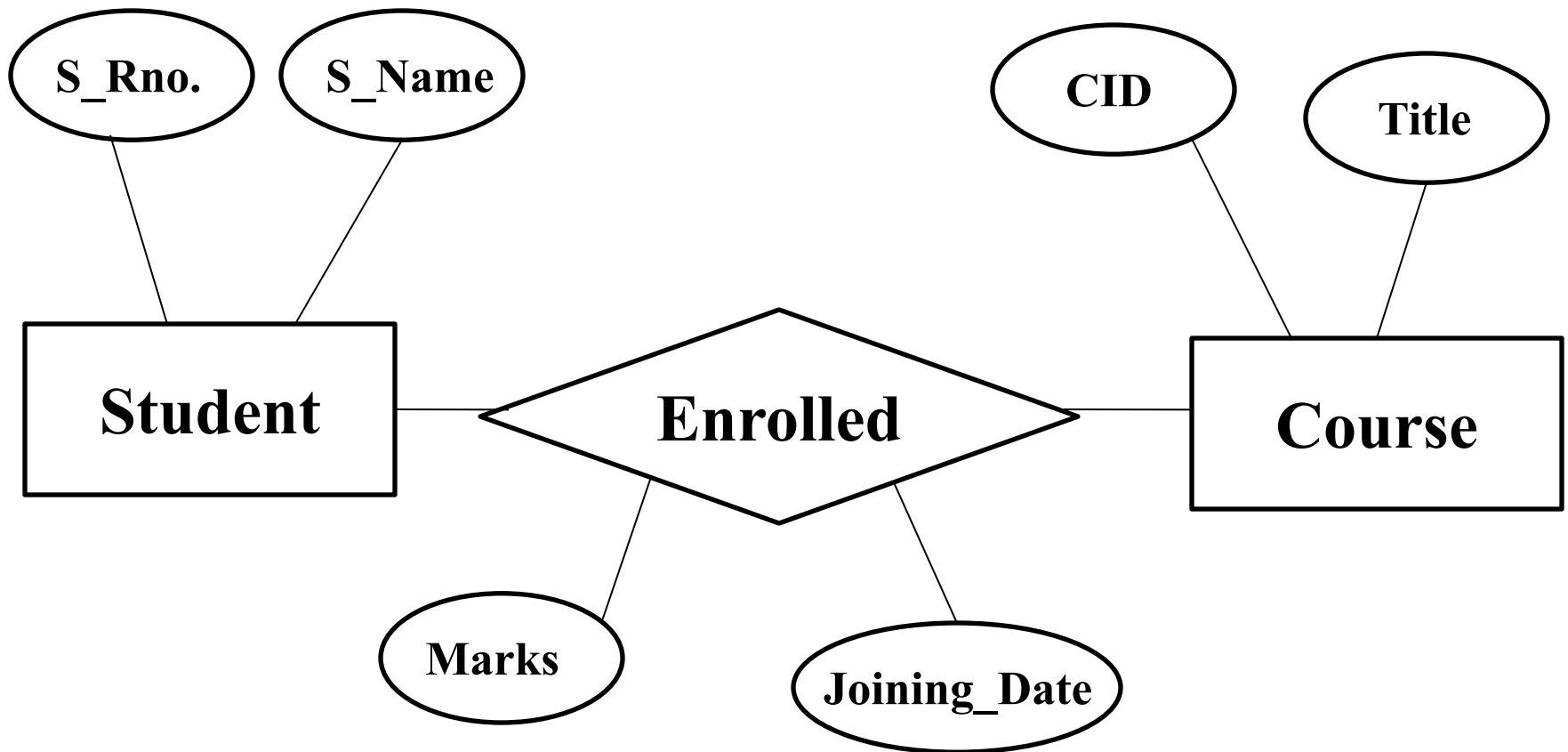
ID	Name	Age	Add
1	Prashant	21.1.1993	Delhi
2	Vipul	12.5.1994	Punjab
3	Nilam	10.9.1994	Delhi

Mapping Relationship

- **Mapping Process (Algorithm)**

- Create table for a relationship.
- Add the primary keys of all participating Entities as fields of table with their respective data types.
- If relationship has any attribute, add each attribute as field of table.
- Declare a primary key composing all the primary keys of participating entities.
- Declare all foreign key constraints.

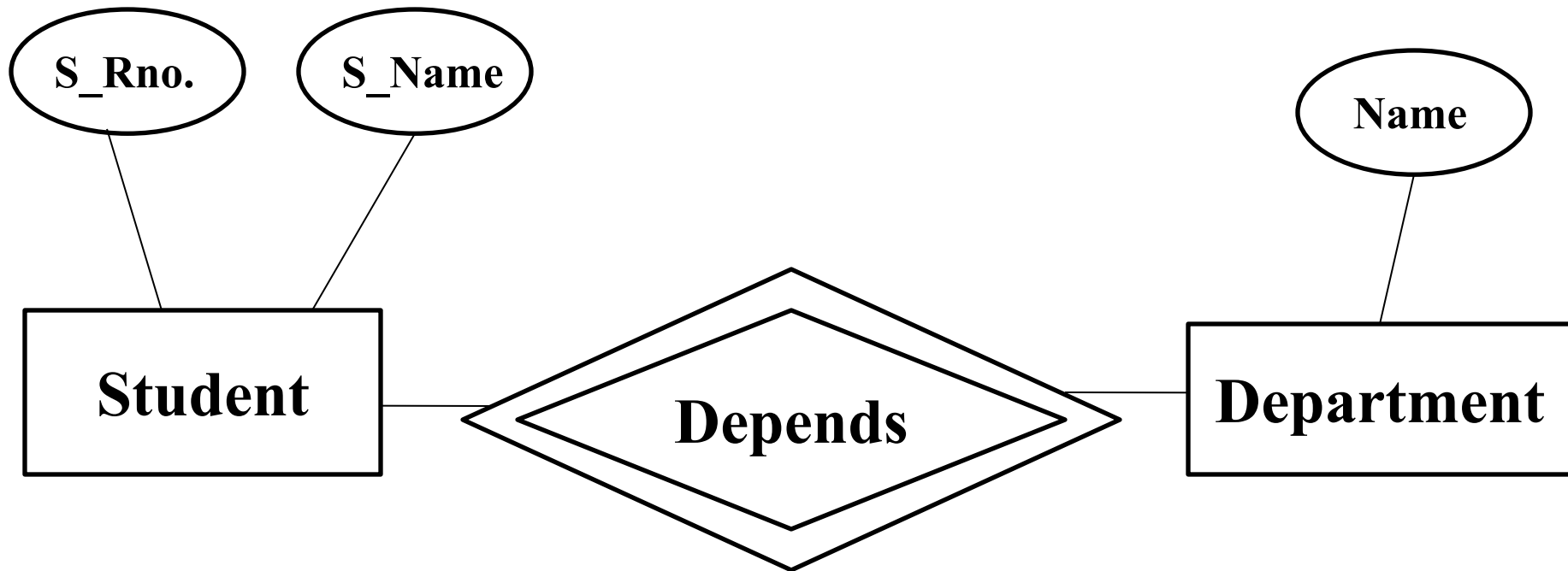
Mapping Relationship- Example



Mapping Weak Entity Sets

- **Mapping Process (Algorithm)**
 - Create table for weak entity set.
 - Add all its attributes to table as field.
 - Add the primary key of identifying entity set.
 - Declare all foreign key constraints.

Mapping Weak Entity Sets- Example



Mapping Hierarchical Entities

- **Mapping Process (Algorithm)**

- Create tables for all higher-level entities.
- Create tables for lower-level entities.
- Add primary keys of higher-level entities in the table of lower-level entities.
- In lower-level tables, add all other attributes of lower-level entities.
- Declare primary key of higher-level table and the primary key for lower-level table.
- Declare foreign key constraints.

Mapping Hierarchical Entities- Example

