

SNS COLLEGE OF TECHNOLOGY, COIMBATORE-35



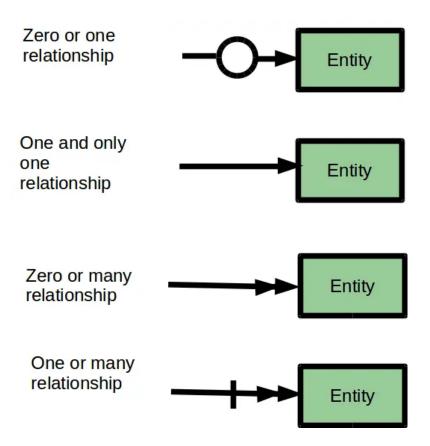
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING 19CST202-DATABASE MANAGEMENT SYSTEM

UNIT-I

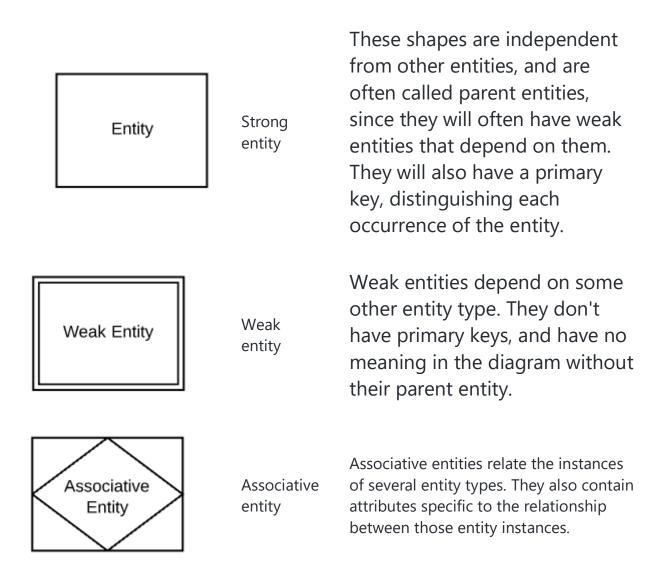
Introduction

ER Notation



- **Zero or one relationship** a single-headed arrow, with an open circle on the line.
- **One relationship** A straight line with one arrowhead
- **Zero or many relationships** Two arrowheads, one sitting just behind the other, and a straight line

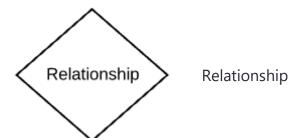
• **One or many relationships** – Two arrowheads, like above, with a short, perpendicular line.



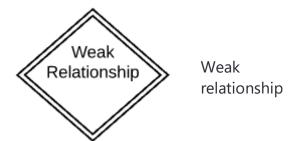
ERD relationship symbols

Within entity-relationship diagrams, relationships are used to

Relationship Symbol Name Description



Relationships are associations between or among entities.



Weak Relationships are connections between a weak entity and its owner.

document the interaction between two entities. Relationships are usually verbs such as assign, associate, or track and provide useful information that could not be discerned with just the entity types.

ERD attribute symbols

ERD attributes are characteristics of the entity that help users to better understand the database. Attributes are included to include details of the various entities that are highlighted in a conceptual ER diagram.

