

## RELATIONSHIP AMONG ENTITIES

### Relationship

A relationship is represented by diamond shape in ER diagram, it shows the relationship among entities. There are four types of relationships:

1. One to One
2. One to Many
3. Many to One
4. Many to Many

#### 1. One to One Relationship

When a single instance of an entity is associated with a single instance of another entity then it is called one to one relationship. For example, a person has only one passport and a passport is given to one person.

#### 2. One to Many Relationship

When a single instance of an entity is associated with more than one instances of another entity then it is called one to many relationship. For example - a customer can place many orders but a order cannot be placed by many customers.

#### 3. Many to One Relationship

When more than one instances of an entity is associated with a single instance of another entity then it is called many to one relationship. For example - many students can study in a single college but a student cannot study in many colleges at the same time.

#### 4. Many to Many Relationship

When more than one instances of an entity is associated with more than one instances of

another entity then it is called many to many relationship. For example, a can be assigned to many projects and a project can be assigned to many students.

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8. Relationship among entities
9. Tuples
10. Attributes
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12. Keys
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14. Twelve rules of CODD
15. Schemas
16. Integrity Constraints
17. Normalization
18. Functional dependency
19. Transaction processing concepts
20. Schedule
21. Serializability

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23. RDBMS
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28. Trigger
29. Oracle cursor
30. Introduction to Concurrency Control

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2. Atul Kahate , " Introduction to Database Management System", Pearson Educations

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