National Institute of Electronics & Information Technology (NIELIT), Gorakhpur राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान ,गोरखपुर



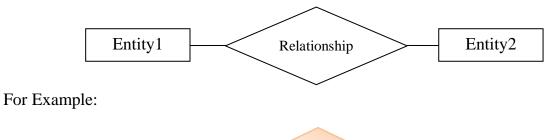
Course Name: A Level (1st Sem) Subject : Introduction to DBMS

Topic: ERD – Relationship & Its Types (Part 2) Date: 31-Mar-2020

Relationship in ERD

♣ Relationship

Relationships are used to describe relations between entities. Relationships are represented by Diamond shaped box. Diamonds are name with relationship name and participating entities are connected to diamond by line shape.







🖶 Types of Relationship

- One to One Relationship
- One to Many Relationship
- Many to One Relationship
- Many to Many Relationship



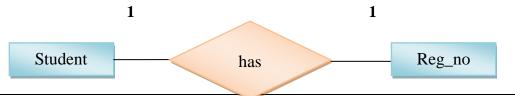
• One to One Relationship

When single instance of an entity is associated with single instance of another entity then it is called One to One Relationship.

Example1: An Employee can have only one Passport, and a Passport is associated with single Employee.



Example2: A Student can have one Reg_no, and a Reg_no is associated with single Student.



• One to Many Relationship

When single instance of an entity is associated with more than one instance of another entity then it is called One to Many Relationship.

Example1: A customer can place many Orders but an Order cannot be placed by many customers.



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Example2: A Department can have many Employees, but an employee is associated with single Department.



Exercises:

- 1. Draw ER diagram for representing One to One Relationship.
- 2. Draw ER diagram for representing One to Many Relationship.

(Note: You must use different examples other than above.)