**5. Spring REST (CRUD API, Pagination, Fetching from Multiple Tables, Image Upload/Download)**

**4. Fetching Data from Multiple Tables:**

• **Theory**

1. **Use of JPA relationships (@OneToOne, @OneToMany, @ManyToOne, and @ManyToMany) to retrieve related data from multiple tables**:- JPA (Java Persistence API) provides annotations to define relationships between entities in a database. These relationships allow us to retrieve related data efficiently from multiple tables.

1️.@OneToOne (One-to-One Relationship)

Definition: A single entity is related to only one other entity.  
 Example: A User has one Profile.

2️.@OneToMany (One-to-Many Relationship)

Definition: One entity can have multiple related entities.  
Example: A Customer can have multiple Orders.

3️.@ManyToOne (Many-to-One Relationship)

Definition: Multiple entities are related to a single entity.  
 Example: Multiple Employees belong to one Department.