Lecture 13: Mapping Relationship Tables

Theory

Database relationships define how entities are connected to each other. In Hibernate, these relationships are mapped using annotations to maintain referential integrity and enable efficient data retrieval.

Types of Relationships

1. One-to-One Relationship

Definition: Each record in one table corresponds to exactly one record in another table.

Example: Alien ↔ Laptop relationship

- One alien owns exactly one laptop
- One laptop belongs to exactly one alien

Table Structure:

```
alien table:
- aid (Primary Key): 101
- aname: Navin
- tech: Java
- laptop_lid (Foreign Key): 1
laptop table:
- lid (Primary Key): 1
- brand: Asus
- model: rog
```

Key Points:

- ram: 16

- Uses Foreign Key to establish relationship
- Foreign key can be placed in either table
- Maintains referential integrity

