Previous session: HAS-A relationship (1:1,1:M)Today session: HAS-A relationship(M:1,M:M) Association a. Composition b. Aggregation Many to one Association It refers to relationship b/w entites, where mulitple instance of one entity should be mapped to one instance of another entity. eg: Multiple student have joined with single branch public class Branch{ private String bid; private String bloc; public class Student { private Integer sid; private String sname; private Integer age; //HAS-A private Branch branch; Many to Many Association It refers to relationship b/w entites, where mulitple instance of one entity should be mapped to Multiple instance of another entity. eg: Many students have taken Many courses public class Course {//Many private Integer cid; private String cname; private Integer cost; public class Student {//Many private Integer sid; private String sname; //HAS-A private Course[] course;

refer: Many-Many-Association(Construtor Injection) Many-One-Association(Construtor Injection)

refer: Many-To-Many.png

}

Many-To-One.png

Association

- a. Composition
- b. Aggregation

What is the difference b/w Composition and Aggregation?

Aggregation => In case of Aggregation, even if the contained object does not exist still the Container object can be reused.

Composition => In case of Composition, if the contained object does not exist then container Object can't be reused.

eg: Relationship b/w library and student => Aggregation Relationship b/w library and books => Composition

Relationship b/w Department and Professor => Aggregation Relationship b/w University and Department => Composition

Relationhsip b/w Human and Heart => Composition Relationship b/w Mobile and charger => Aggregation

refer:Composition vs Aggregation.png