**One To One:**

**All the mapping are two types**

**1.uni-directional (one side)**

**2.bi-directional** **(both side)**

**Uni-directional:**

**Question: Entity**

|  |  |  |
| --- | --- | --- |
| **QuestionId (PK)** | **Question** | **AnswerId )(FK** |
| **123** | **What is java?** | **451** |
| **124** | **What is your name?** | **452** |

**Answer: Entity**

|  |  |
| --- | --- |
| **AnswerId (PK)** | **Answer** |
| **451** | **Java is a programming Language** |
| **452** | **My name is Mo Masood Ansari** |

**@Entity** **@Entity**

**Class Question{ class Answer{**

**@Id** **@Id**

**Int question\_id;** **int answer\_id;**

**String Question;** **String answer;**

**@One To One** **}**

**Answer answer;**

**}**

**One To Many:**

**Uni-Direction & bi-direction**

**One Student have Many books**

**@Entity** **@Entity**

**Student{** **Books{**

**private int id;** **private int id;**

**Private String name;** **private String name;**

**@OneToMany** **@ManyToOne**

**Private Books book;**  **private Student student;**

**}**

**}**

**ManyToMany:**

|  |  |
| --- | --- |
| **@Entity**  **Employee{**  **Private int id;**  **Private String name;**  **@ManyToMany**  **(MappedBy="employee")**  **Private List<Project> project;**  **}** | **@Entity**  **Project{**  **Private int id;**  **Private String name;**  **@ManyToMany**  **@JoinTable(joincolumn{(@joincolumn="p\_id")}inversjoin{(@joincolumn="e\_id")})**  **Private List<Employee> employee;**  **}** |

**OneToOne Bidirection.**