Hibernate - Relational Mapping

Presented by

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One to One Mapping

One to one mapping is mapped by one-to-one element.

No foreign key is generated

Ex : One book has one author only

   One author has one book only

```java
@OneToOne(cascade = CascadeType.ALL)
@JoinColumn(name = "AUTHOR_ID")
public Author getAuthor() {
    return author;
}
```

One to One Mapping

```sql
48    -- --------------------------------------------------------------------
49 •  create database hibernateonetoonemapping;
50 •  use hibernateonetoonemapping;
51 •  show tables;
52 •  select * from book;
53
54
55
56
57    |
58
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: 𝐈A

BOOK_ID	description	PUBLISHED	title	AUTHOR_ID
1	Simplified Data Persistence with Hiber...	2024-08-09	Hibernate Made Easy	2
NULL	NULL	NULL	NULL	NULL

One to Many Mapping

If the persistent class has **list object (Many)** that contains the **entity (One)** reference, we need to use **one-to-many** association to map the list element.
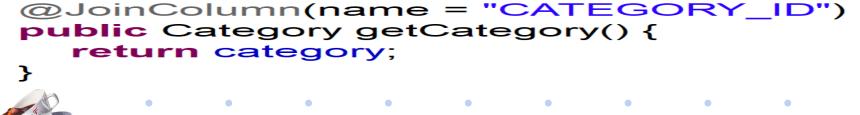
Ex. One Category - Many Products

In Category bean :

```java
@OneToMany(mappedBy = "category", cascade = CascadeType.ALL)
public Set<Product> getProducts() {
    return products;
}
```

In Product bean :

```java
@ManyToOne
@JoinColumn(name = "CATEGORY_ID")
public Category getCategory() {
    return category;
}
```

One to Many Mapping

```
61 •     create database hibernateonetomanymapping;
62 •     use hibernateonetomanymapping;
63 •     show tables;
64 •     select * from category;
65 •     select * from product;
66
67
68
```

Result Grid | Filter Rows: | Edit: | Export/Import:

CATEGORY_ID	name
1	Computer
NULL	NULL

```
60
61 •     create database hibernateonetomanymapping;
62 •     use hibernateonetomanymapping;
63 •     show tables;
64 •     select * from category;
65 •     select * from product;
66
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Ce

PRODUCT_ID	description	name	price	CATEGORY_ID
2	Quad-core PC	DELL Inspiron	1200	1
3	Touch Screen	Lenovo Idea Pad	1199	1
4	Apple High-end laptop	MacBook Air	2100	1
5	Stylish and Portable	HP Pavillion	1100	1
NULL	NULL	NULL	NULL	NULL

Thank You