

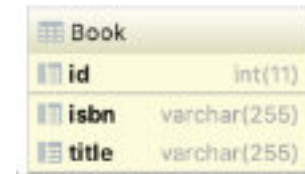
# Basic

```
@Entity
public class Book {

    @Id
    @GeneratedValue
    int id;

    String title;
    String isbn;

    ...
}
```



# ManyToOne

```
@Entity
public class Author {

    @Id
    @GeneratedValue
    int id;

    String name;

    ...
}
```

```
@Entity
public class Book {

    @Id
    @GeneratedValue
    int id;

    String title;
    String isbn;

    @ManyToOne
    Author author;

    ...
}
```



# OneToMany

```
@Entity
public class Author {

    @Id
    @GeneratedValue
    int id;

    String name;

    @OneToMany
    Set<Book> books;

    ...
}
```

```
@Entity
public class Book {

    @Id
    @GeneratedValue
    int id;

    String title;
    String isbn;

    ...
}
```



## OneToMany + ManyToOne

```
@Entity
public class Author {
    @Id
    @GeneratedValue
    int id;

    String name;

    @OneToMany
    (mappedBy = "author")
    Set<Book> books;
    ...
}
```

```
@Entity
public class Book {
    @Id
    @GeneratedValue
    int id;

    String title;
    String isbn;

    @ManyToOne
    Author author;
    ...
}
```



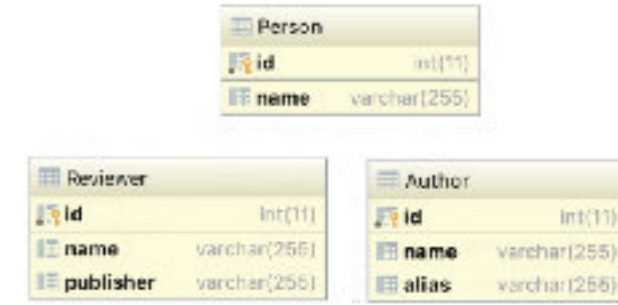
## Inheritance (table\_per\_class)

```
@Entity
@Inheritance(strategy=
InheritanceType
.TABLE_PER_CLASS)
public class Person {
    @Id
    @GeneratedValue
    int id;

    String name;
    ...
}
```

```
@Entity
public class Reviewer
extends Person {
    String publisher;
    ...
}
```

```
@Entity
public class Author
extends Person {
    String alias;
    ...
}
```



## ManyToMany

```
@Entity
public class Author {
    @Id
    @GeneratedValue
    int id;

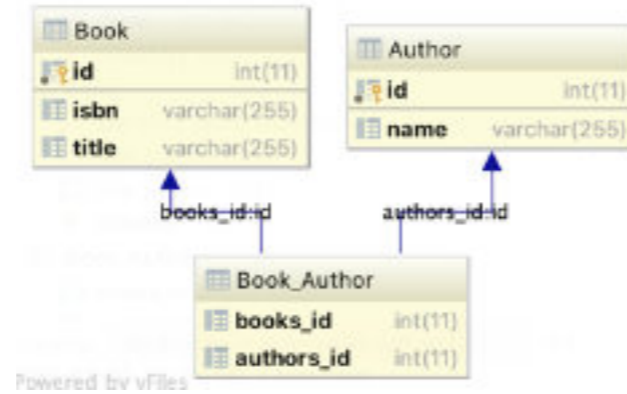
    String name;

    @ManyToMany
    (mappedBy = "authors")
    List<Book> books;
    ...
}
```

```
@Entity
public class Book {
    @Id
    @GeneratedValue
    int id;

    String title;
    String isbn;

    @ManyToMany
    List<Author> authors;
    ...
}
```



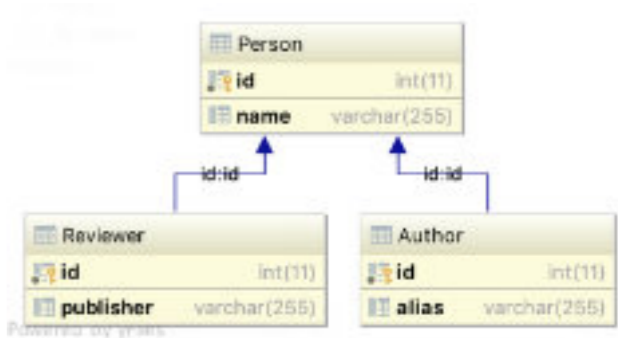
## Inheritance (joined)

```
@Entity
@Inheritance(strategy=
InheritanceType
.JOINED)
public class Person {
    @Id
    @GeneratedValue
    int id;

    String name;
    ...
}
```

```
@Entity
public class Reviewer
extends Person {
    String publisher;
    ...
}
```

```
@Entity
public class Author
extends Person {
    String alias;
    ...
}
```



## Embedded

```
@Entity
public class Author {
    @Id
    @GeneratedValue
    int id;

    String name;

    @Embedded
    Address address;
    ...
}
```

```
@Embeddable
class Address {
    String street;
    String city;
    ...
}
```



## Inheritance (single\_type)

```
@Entity
@Inheritance(strategy=
InheritanceType
.SINGLE_TYPE)
public class Person {
    @Id
    @GeneratedValue
    int id;

    String name;
    ...
}
```

```
@Entity
public class Reviewer
extends Person {
    String publisher;
    ...
}
```

```
@Entity
public class Author
extends Person {
    String alias;
    ...
}
```

