

1:1 단

A.java

```
@Entity
@Getter @Setter
public class A {
    @Id
    @GeneratedValue
    private Long id;

    @OneToOne
    private B b;
}
```

B.java

```
@Entity
@Getter
@Setter
public class B {

    @Id
    @GeneratedValue
    private Long id;
}
```

select * from A;

ID	B_ID
----	------

(행 없음, 1 ms)

select * from B;

ID

(행 없음, 1 ms)

1:1 양

A.java

```

@Entity
@Getter @Setter
public class A {
    @Id
    @GeneratedValue
    private Long id;

    @OneToOne
    private B b;
}

```

B.java

```

@Entity
@Getter
@Setter
public class B {

    @Id
    @GeneratedValue
    private Long id;

    @OneToOne
    private A a;
}

```

select * from A;

ID	B_ID
(행 없음, 0 ms)	

select * from B;

ID	A_ID
(행 없음, 1 ms)	

B에 mappedBy 넣으면

```

@Entity
@Getter
@Setter
public class B {

    @Id
    @GeneratedValue
    private Long id;

    @OneToOne(mappedBy = "b")
    private A a;

}

```

select * from A;

ID	B_ID
(행 없음, 1 ms)	

select * from B;

ID
(행 없음, 0 ms)

A에 mappedBy 넣으면

```

@Entity
@Getter @Setter
public class A {
    @Id
    @GeneratedValue
    private Long id;

    @OneToOne(mappedBy = "a")
    private B b;

}

```

select * from A;

ID
(행 없음, 1 ms)

select * from B;

ID	A_ID
(행 없음, 0 ms)	

1:N 단

```

package com.megait.test;

import lombok.Getter;
import lombok.Setter;
import org.hibernate.mapping.ToOne;

import javax.persistence.*;
import java.util.List;

@Entity
@Getter @Setter
public class A {
    @Id
    @GeneratedValue
    private Long id;

    @OneToMany
    private List<B> b;
}

```

```

@Entity
@Getter
@Setter
public class B {

    @Id
    @GeneratedValue
    private Long id;
}

```

select * from A;

ID

(행 없음, 1 ms)

select * from B;

ID

(행 없음, 0 ms)

select * from A_B;

A_ID	B_ID
------	------

(행 없음, 0 ms)

1:N 양

```
public class A {  
    @Id  
    @GeneratedValue  
    private Long id;  
  
    @OneToMany  
    private List<B> b;  
  
}
```

```
public class B {  
  
    @Id  
    @GeneratedValue  
    private Long id;  
  
    @ManyToOne  
    private A a;  
  
}
```

select * from A;

ID

(행 없음, 0 ms)

select * from B;

ID A_ID

(행 없음, 1 ms)

select * from A_B;

A_ID B_ID

(행 없음, 0 ms)

A에 mappedBy 넣으면

```

public class A {
    @Id
    @GeneratedValue
    private Long id;

    @OneToMany(mappedBy = "a")
    private List<B> b;
}

```

select * from A;

ID

(행 없음, 0 ms)

select * from B;

ID

A_ID

(행 없음, 1 ms)

N:1 단

```

public class A {
    @Id
    @GeneratedValue
    private Long id;

    @ManyToOne
    private B b;
}

```

```

public class B {
    @Id
    @GeneratedValue
    private Long id;
}

```

select * from A;

ID	B_ID
----	------

(행 없음, 1 ms)

select * from B;

ID

(행 없음, 0 ms)

N:1 양

```
public class A {  
    @Id  
    @GeneratedValue  
    private Long id;  
  
    @ManyToOne  
    private B b;  
  
}
```

```
public class B {  
  
    @Id  
    @GeneratedValue  
    private Long id;  
  
    @OneToMany  
    private List<A> a;  
  
}
```

select * from A;

ID	B_ID
----	------

(행 없음, 0 ms)

select * from B;

ID

(행 없음, 1 ms)

--select * from A_B;

select * from B_A;

B_ID	A_ID
------	------

(행 없음, 0 ms)

B에 mappedBy 넣으면

```
public class B {  
  
    @Id  
    @GeneratedValue  
    private Long id;  
  
    @OneToMany(mappedBy = "b")  
    private List<A> a;  
  
}
```

select * from A;

ID	B_ID
----	------

(행 없음, 2 ms)

select * from B;

ID

(행 없음, 0 ms)

N:M 단


```
public class A {
    @Id
    @GeneratedValue
    private Long id;

    @ManyToMany
    private List<B> b;
}
```

```
public class B {

    @Id
    @GeneratedValue
    private Long id;
}
```

select * from A;

ID

(행 없음, 1 ms)

select * from B;

ID

(행 없음, 0 ms)

select * from A_B;

A_ID

B_ID

(행 없음, 0 ms)

N:M 양

```
public class A {
    @Id
    @GeneratedValue
    private Long id;

    @ManyToMany
    private List<B> b;
}
```

```
public class B {

    @Id
    @GeneratedValue
    private Long id;

    @ManyToMany
    private List<A> a;

}
```

select * from A;

ID

(행 없음, 1 ms)

select * from B;

ID

(행 없음, 0 ms)

select * from A_B;

A_ID B_ID

(행 없음, 1 ms)

select * from B_A;

B_ID A_ID

(행 없음, 0 ms)

A에 mappedBy 넣으면

```
public class A {
    @Id
    @GeneratedValue
    private Long id;

    @ManyToMany(mappedBy = "a")
    private List<B> b;

}
```

select * from A;

ID

(행 없음, 1 ms)

select * from B;

ID

(행 없음, 0 ms)

--select * from A_B;

select * from B_A;

B_ID

A_ID

(행 없음, 0 ms)

B에 mappedBy 넣으면

```
public class B {  
  
    @Id  
    @GeneratedValue  
    private Long id;  
  
    @ManyToMany(mappedBy = "b")  
    private List<A> a;  
  
}
```

select * from A;

ID

(행 없음, 1 ms)

select * from B;

ID

(행 없음, 1 ms)

select * from A_B;

A_ID

B_ID

(행 없음, 0 ms)