


JPA Relationship

 DB ,
JPA CLASS OBJECT .

VS

.

```
User user = sql.exec( User , "select * from user u where u.id=", 1234 );
.....
Address address = sql.exec( Address , "select t.* from address t join user u on u.addressid = " + user.addressid );
```

, addressid
User Address .

.

User Address
ERD UML .

```
User user = em.find( User , 1234 );
.....
Address address = user.getAddress();
```

, . JPA .

ERD, UML .



Entity
ERD() UML()

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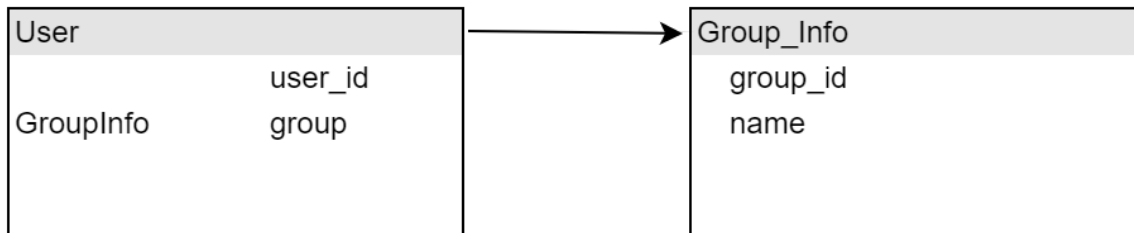
- ManyToOne : N VS 1
- OneToMany : 1 VS N
- ManyToMany : N VS N

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• : ,

ManyToOne

객체연관관계



테이블 연관관계

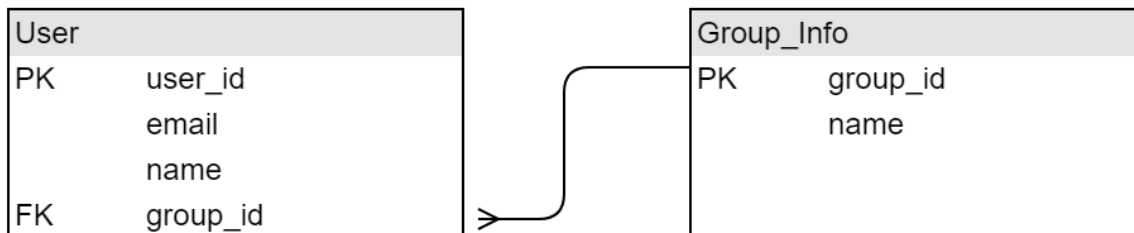


그림. 다대일 연관 관계 | 다대일(N:1) 단방향

```

CREATE TABLE `group_info` (
  `group_id` int(11) NOT NULL AUTO_INCREMENT,
  `name` varchar(255) COLLATE utf8_bin DEFAULT NULL,
  PRIMARY KEY (`group_id`)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;

CREATE TABLE `user` (
  `user_id` int(11) NOT NULL AUTO_INCREMENT,
  `email` varchar(255) COLLATE utf8_bin DEFAULT NULL,
  `name` varchar(255) COLLATE utf8_bin DEFAULT NULL,
  `group_id` int(11) DEFAULT NULL,
  PRIMARY KEY (`user_id`),
  KEY `FKa36i4ekojwk70bxen390i6tek` (`group_id`),
  CONSTRAINT `FKa36i4ekojwk70bxen390i6tek` FOREIGN KEY (`group_id`) REFERENCES `group_info` (`group_id`)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;

```

N:1 .

'@ManyToOne' .

() .

```

@Entity
public class User {
    @Id
    @GeneratedValue
    @Column(name = "USER_ID")
    private Integer id;

    private String name;

    private String email;

    @ManyToOne
    @JoinColumn(name = "GROUP_ID", nullable=true )
    private GroupInfo groupInfo;
}

```

:http://git.webnori.com/projects/WEBF/repos/spring_jpa/browse/src/main/java/com/example/demo/data2/User.java

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- .
- , .
- , .

```
GroupInfo someGroup = groupRepository.findByName("");

//
User addUser = new User();
addUser.setName("minsu");
addUser.setEmail("test@x.com");
addUser.setGroupInfo(someGroup);

//
User someUser = userRepository.findByName("minsu")
GroupInfo someUserMyGroup = someUser.getGroupInfo();
```

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, SQL/SP ,

JAVA SQL , ? ,

· ,

SQL .

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- [https://kihoonkim.github.io/2017/01/27/JPA\(Java%20ORM\)/3.%20JPA-%EC%97%94%ED%8B%B0%ED%8B%B0%20%EB%A7%A4%ED%95%91/](https://kihoonkim.github.io/2017/01/27/JPA(Java%20ORM)/3.%20JPA-%EC%97%94%ED%8B%B0%ED%8B%B0%20%EB%A7%A4%ED%95%91/)
- <http://jdm.kr/blog/142>