spring.datasource.url=jdbc:mysql://localhost:3306/resturant

spring.datasource.username=root

spring.datasource.password=root

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.format\_sql=true

#spring.jpa.hibernate.ddl-auto=update

Enabling h2 console

#spring.h2.console.enabled=true

# to check time statistic like how much time taken by query to prepere and execute

spring.jpa.properties.hibernate.generate\_statistics=true

logging.level.org.hibernate.stat=debug

#checking value in query

logging.level.org.hibernate.type=trace

@JsonIgnore – important

OneToOne

Class -> userEntity

@OneToOne(cascade= {CascadeType.***ALL***})

@JoinColumn(name="id")

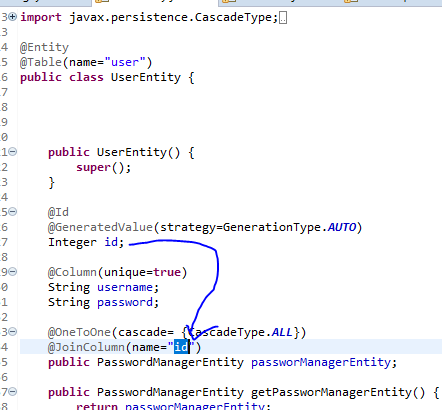
**public** PasswordManagerEntity passworManagerEntity;

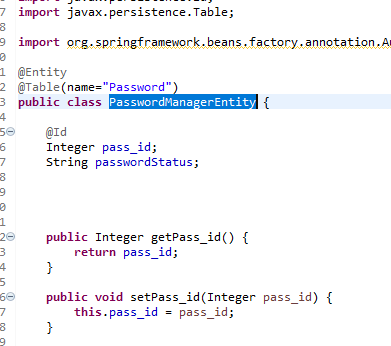
In OneToOne Mapping ……………..userEntity id == password manager Entity … pass\_id

In code we are providng

**Id** inside userEntity class will become primary key **pass\_id**

If you are putting mapping inside the userEntity then **@JoinColumn(name=”id”)**





OneToMany

@OneToMany

@JoinColumn(name="productCatId")

**private** Set<ProductEntity> products=**new** HashSet<ProductEntity>();

Same column should be

Mention here

ManyToOne

@ManyToOne

@JoinColumn(name="productCatId",insertable=**false**,updatable=**false**)

ProductCatEntity productcat;

Sequence

@Id

@GeneratedValue(strategy=GenerationType.***SEQUENCE***,generator="prod\_trx\_seq")

@SequenceGenerator(name="prod\_trx\_seq",sequenceName="prod\_trx\_seq")

Long product\_bill;

Working with JDBC template

1. How to enable h2 console.
   1. spring.h2.console.enabled=true ---🡪 Properties file
   2. <http://localhost:8080/h2-console/>

2021-03-09 08:07:17.030 INFO 16332 --- [ restartedMain] o.s.b.a.h2.H2ConsoleAutoConfiguration : H2 console available at '/h2-console'. Database available at 'jdbc:h2:mem:d64802f3-0f6f-4c05-ae78-aaf700c0f99c'

Crud example using JMS template

----🡪 @Autowired

JdbcTemplate jdbc;

System.***out***.println("Before Update");

**for**(User u:jdbc.query("select \* from user",**new** BeanPropertyRowMapper<User>(User.**class**))) {

System.***out***.println(u);

}

jdbc.update("update user set name=?1 where id=?2",**new** Object[] {"Vicky Arya",3});

System.***out***.println("After Update and before insert");

**for**(User u:jdbc.query("select \* from user",**new** BeanPropertyRowMapper<User>(User.**class**))) {

System.***out***.println(u);

}

jdbc.update("insert into user (id,name,location) values (?1,?2,?3)",**new** Object[] {4,"ANUJ","Fazilka"});

System.***out***.println("after insert before delete");

**for**(User u:jdbc.query("select \* from user",**new** BeanPropertyRowMapper<User>(User.**class**))) {

System.***out***.println(u);

}

jdbc.update("delete from user where id =?1",**new** Object[] {1});

System.***out***.println("After delete ");

**for**(User u:jdbc.query("select \* from user",**new** BeanPropertyRowMapper<User>(User.**class**))) {

System.***out***.println(u);

}

Output :

Before Update

User [id=1, name=Deepak, location=Abohar]

User [id=2, name=Tarun, location=Bathinda]

User [id=3, name=Vicky, location=Canada]

After Update and before insert

User [id=1, name=Deepak, location=Abohar]

User [id=2, name=Tarun, location=Bathinda]

User [id=3, name=Vicky Arya, location=Canada]

after insert before delete

User [id=1, name=Deepak, location=Abohar]

User [id=2, name=Tarun, location=Bathinda]

User [id=3, name=Vicky Arya, location=Canada]

User [id=4, name=ANUJ, location=Fazilka]

After delete

User [id=2, name=Tarun, location=Bathinda]

User [id=3, name=Vicky Arya, location=Canada]

User [id=4, name=ANUJ, location=Fazilka]

Custome Row Mapper

@Component

**public** **class** JDBCTemplateCustomeRowMapperExample {

@Autowired

JdbcTemplate jdbc;

**class** PersonRowMapper **implements** RowMapper<Person>{

@Override

**public** Person mapRow(ResultSet rs, **int** rowNum) **throws** SQLException {

Person person=**new** Person();

person.setId(rs.getLong(1));

person.setPersonName(rs.getString(2));

person.setCity(rs.getString(3));

**return** person;

}

}

**public** **void** f1() {

**for**(Person p:jdbc.query("select \* from user",**new** PersonRowMapper())) {

System.***out***.println(p);

}

}

}

Output:

Person [id=1, personName=Abohar, city=Deepak]

Person [id=2, personName=Bathinda, city=Tarun]

Person [id=3, personName=Canada, city=Vicky]

Entity Manager Example

1. Find by Id

@Repository

@Transactional

**public** **class** JPAEntityExample {

@PersistenceContext

EntityManager entManager;

**public** User findById(Integer id) {

**return** entManager.find(User.**class**, id);

}

**public** User insertOrUpdate(User obj) {

**return** entManager.merge(obj);

}

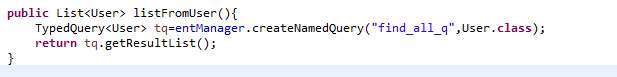
**public** **void** deleteById(Integer Id) {

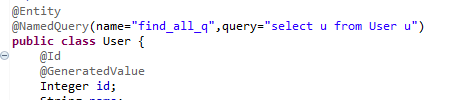
entManager.remove(**this**.findById(Id));

}

}

NameQuery





1. CURD operation using jdbc template .
2. CustomeBean mapping
3. JPA entity manager
4. Named Query find all result