Zadanie domowe z Hibernate'a

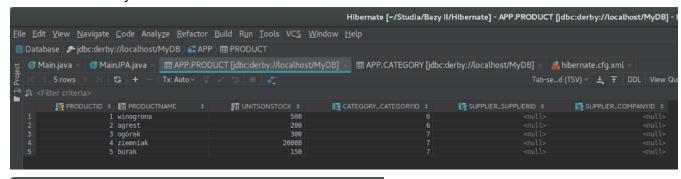
Krzysztof Makieła

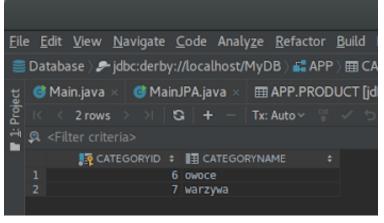
IX

Wykonanie kroku VI przy użyciu JPA:

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
III Hibernate ⟩ III src ⟩ © MainJPA
    🌀 Main.java 🗴 🌀 MainJPA.java 🗴 🖽 APP.PRODUCT [jdbc:derby://localhost/MyDB] 🗵
                  public static void main(String[] args) {
                      EntityManagerFactory emf = Persistence.
createEntityManagerFactory( persistenceUnitName: "myDatabaseConfig");
                      EntityManager em = emf.createEntityManager();
                      EntityTransaction etx = em.getTransaction();
                      etx.begin();
                      String categoryNamel = "owoce";
                      String categoryName2 = "warzywa";
                      String prod1Name = "winogrona";
                      int prod1Stan = 500;
                      String prod2Name = "agrest";
                      int prod2Stan = 200;
                      String prod3Name = "ogórek";
                      int prod3Stan = 300;
String prod4Name = "ziemniak";
                      int prod4Stan = 20000;
                      String prod5Name = "burak";
                      int prod5Stan = 150;
                      Category cat1 = new Category(categoryName1);
Category cat2 = new Category(categoryName2);
Product prod1 = new Product(prod1Name,prod1Stan);
                      Product prod2 = new Product(prod2Name,prod2Stan);
                      Product prod3 = new Product(prod3Name,prod3Stan);
Product prod4 = new Product(prod4Name,prod4Stan);
Product prod5 = new Product(prod5Name,prod5Stan);
                      cat1.addProduct(prod1);
                      cat1.addProduct(prod2);
                      cat2.addProduct(prod3);
                      cat2.addProduct(prod4);
                      cat2.addProduct(prod5);
                      em.persist(prod1)
                      em.persist(prod2);
                      em.persist(prod3);
                      em.persist(prod4);
                      em.persist(prod5);
                      em.persist(cat1);
                      em.persist(cat2);
                      etx.commit();
                      em.close();
```

Efekt w bazie danych:





X

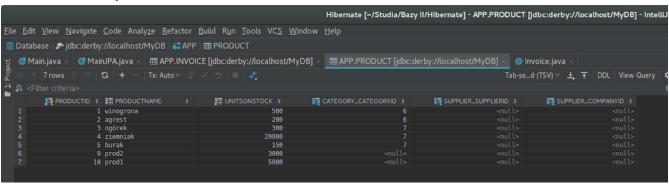
Kaskady klasa Invoice:

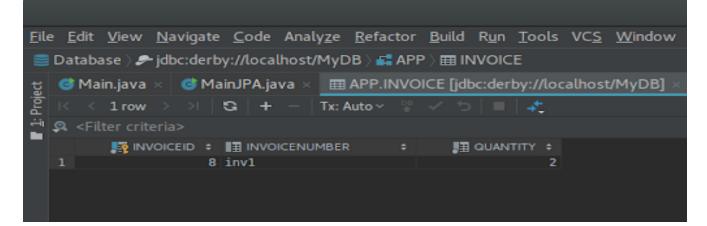
```
Hilb
<u>File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help</u>
III Hibernate ⟩ ■ src ⟩ ③ Invoice
                import javax.persistence.*;
import javax.persistence.criteria.CriteriaBuilder:
import java.util.HashSet;
import java.util.Set;
ä
                @Entity public class Invoice {
                       GoeneratedValue(strategy = GenerationType.AUTO)
public int invoiceID;
          €ę
                       private String InvoiceNumber;
private int Quantity;
                       @ManyToMany(cascade = {CascadeType.ALL})
private Set<Product> Products = new HashSet<>( * 0);
          ø
                       public Invoice(String invoiceNumber, int quantity) {
   InvoiceNumber = invoiceNumber;
   Quantity = quantity;
                        public Invoice(String invoiceNumber, int quantity, Set<Product> products ){
                             InvoiceNumber = invoiceNumber;
Quantity = quantity;
Products = products;
                       public Set<Product> getProducts() {
                       public void addProduct(Product product) {
    Products.add(product);
    product.addToInvoice(this);
```

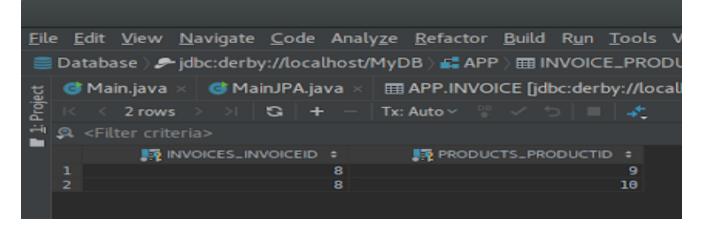
W klasie main:

```
Product p1 = new Product( ProductName: "prod1", UnitsOnStock: 5000);
Product p2 = new Product( ProductName: "prod2", UnitsOnStock: 3000);
Set<Product p2 = new HashSet ( i: 0);
prodset.add(p1);
prodset.add(p1);
prodset.add(p2);
Invoice inv1 = new Invoice( invoiceNumber: "inv1", quantity: 2,prodset);
em.persist(inv1);
etx.commit();
em.close();
```

Efekt w bazie danych:







Embedded Klasa Address:

```
Address.java [Hibernate] - IntelliJ IDEA
DUCT [jdbc:derby://localhost/MyDB] × 🛮 💿 Address.java
       import javax.persistence.Column;
        import javax.persistence.Embeddable;
        @Embeddable
   霊
        public class Address {
            @Column(name = "street")
            private String StreetA;
            @Column(name = "city")
  0
            private String CityA;
           public Address(){
            public Address(String streetA, String cityA){
                this.StreetA = streetA;
                this.CityA = cityA;
            public String getStreetA() {
                return StreetA;
            public void setStreetA(String streetA) {
                StreetA = streetA;
            public String getCityA() {
                return CityA;
            public void setCityA(String cityA) {
                CityA = cityA;
        }
37
```

Klasa Supplier:

XII

Dziedziczenie Klasa Company:

```
Hiberna
<u>File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help</u>
 III Hibernate ⟩ III src ⟩ ⊙ Company
     G Main.java × G MainJPA.java × G Address.java × G Supplier.java × G Company.java × G
                    import javax.persistence.GeneratedValue
import javax.persistence.GenerationType
ä
                     import javax.persistence.Id;
import javax.persistence.MappedSuperclass;
                    @MappedSuperclass
public class Company {
                           @GeneratedValue(strategy = GenerationType.AUTO)
                          public int companyID;
private String companyName;
private String street;
private String city;
private String zipCode;
                           public Company(){
                          public Company(String companyName, String street, String city, String zipCode) {
    this.companyName = companyName;
    this.street = street;
    this.city = city;
    this.zipCode = zipCode;
}
                          public String getCompanyName() {
   return companyName;
                          public void setCompanyName(String companyName) {
    this.companyName = companyName;
                          public String getStreet() {
    return street;
■ Persistence
                          public void setStreet(String street) {
    this.street = street;
 ¥ 2: Favorites
                          public String getCity() {
    return city;
                          public void setCity(String city) {
   this.city = city;
                          public String getZipCode() {
   return zipCode;
}
       👼 Database Changes 🛮 Terminal 📠 Java Enterprise 🖃 🛈 Messages 🕨 4: Run 🖼 6: TODO
```

Klasa Supplier:

```
### SETION CONTINUATION OF THE PROPERTY O
```

Klasa Customer:

```
### CEntity public class Customer extends Company implements Serializable {

private static final long serialVersionUID = 1L;

#### GENTIFY Public Customer (String to the sustainance of the sustainance o
```

Wywołania w main:

```
Customer cust1 = new Customer( companyName: "Customer1", Street: "customerStreet", City: "customerCity", ZipCode: "666-666", discount: 15);

Supplier suppl = new Supplier( companyName: "supplier1", Street: "supplierstreet", City: "suppcity", ZipCode: "66-666-66", bankAccountNumber: "12345676853256856");
em.persist(cust1);
em.persist(suppl);
```

Efekt w bazie: