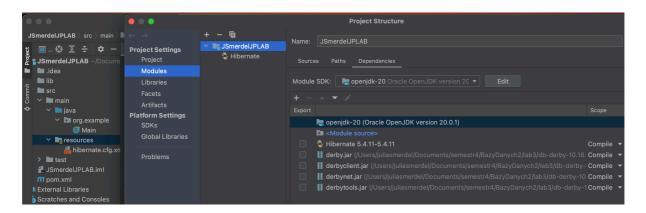
Hibernate, JPA – laboratorium

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1. Struktura



2. Konfiguracja pliku hibernate.cfg.xml

3. Klasa Main

```
import org.hibernate.cfg.Configuration;
public class Main {
   private static final SessionFactory ourSessionFactory;
   static {
       try {
            Configuration configuration = new Configuration();
            configuration.configure();
            ourSessionFactory = configuration.buildSessionFactory();
       } catch (Throwable ex) {
            throw new ExceptionInInitializerError(ex);
   public static Session getSession() throws HibernateException {
       return ourSessionFactory.openSession();
   public static void main(final String[] args) throws Exception {
        final Session session = getSession();
        try {
       } finally {
           session.close();
    }
```

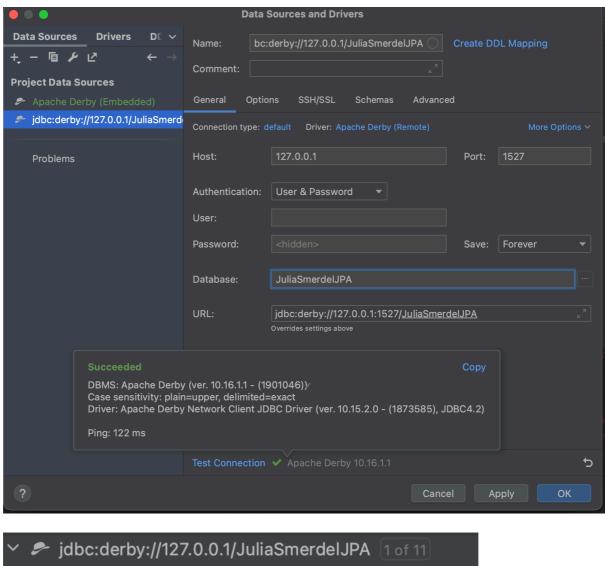
Uruchomienie projektu:

```
Main ×

Apr 19, 2023 1:52:45 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$PooledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Apr 19, 2023 1:52:47 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.DerbyTenSevenDialect
Apr 19, 2023 1:52:48 PM org.hibernate.resource.transaction.backend.jdbc.internal.DdlTransactionIsolatorNonJtaImpl getIsolatedConnection
INFO: HHH0001501: Connection obtained from JdbcConnectionAcces [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInitiator$ConnectionProviderJdbcConnectionAcce
Apr 19, 2023 1:52:48 PM org.hibernate.engine.transaction.jta.platform.internal.JtePtatformInitiator initiateservice
INFO: HHH000470: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]

Process finished with exit code 0
```

Utworzona baza danych:





4. Klasa Product

```
package org.example;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
@Entity
public class Product {
    DI6
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int productID;
    private String ProductName;
    1 usage
    private int UnitsOnStock;
    public Product(){
    public Product(String name, int number){
        this.ProductName = name;
        this.UnitsOnStock = number;
```

5. Plik konfiguracyjny hibernate.

6. Klasa Main (zmiana względem punktu 3) nastąpiła tylko w miejscu ukazanym na zrzucie ekranu poniżej)

```
public static Session getSession() throws HibernateException {
    return ourSessionFactory.openSession();
}

public static void main(final String[] args) throws Exception {
    final Session session = getSession();
    Product product = new Product( name: "Krzesto", number: 111);
    try {
        Transaction tx = session.beginTransaction();
        session.save(product);
        tx.commit();
    } finally {
        session.close();
    }
}
```

7. Wywołanie programu

```
Hibernate:

create table Product (
    productID integer not null,
    ProductName varchar(255),
    UnitsOnStock integer not null,
    primary key (productID)
)

Hibernate: create sequence hibernate_sequence start with 1 increment by 1

Apr 19, 2023 5:01:56 PM org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator initiateService

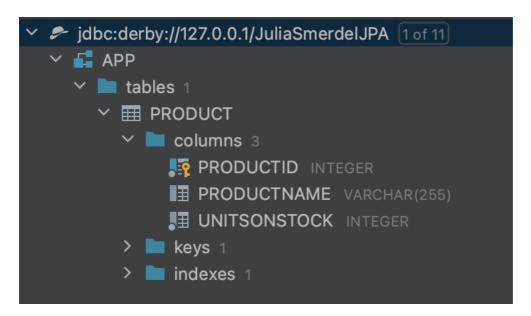
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]

Hibernate:

values
    next value for hibernate_sequence

Hibernate:
    insert
    into
        Product
        (ProductName, UnitsOnStock, productID)

values
        (2, ?, ?)
```



	₽ PRODUCTID	‡	■ PRODUCTNAME	‡	■ UNITSONSTOCK ÷
1		1	Krzesło		111