Create a Java program to demonstrate JDBC and Spring Integration

ProductController.java

```
package com.ecommerce.controller;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.web.bind.annotation.*;
import com.ecommerce.EProduct;
import com.ecommerce.dao.EProductDAO;
@Controller
public class ProductController {
  @Autowired
  EProductDAO eproductDAO;
  @RequestMapping(value = "/listProducts", method = RequestMethod.GET)
  public String listProducts(ModelMap model) {
    List<EProduct> listOfProducts = eproductDAO.getProducts();
    model.addAttribute("list", listOfProducts);
    return "listProducts"; // go to listProducts.jsp
  }
  @RequestMapping(value = "/addProduct", method = RequestMethod.POST)
  public String addProduct(@RequestParam String name, @RequestParam float
price) {
    eproductDAO.addProduct(name,price);
    return "addProductSuccess"; // go to addProductSuccess.jsp
  }
  @RequestMapping(value = "/deleteProduct", method = RequestMethod.POST)
  public String deleteProduct(@RequestParam int id) {
    eproductDAO.deleteProduct(id);
    return "deleteProductSuccess"; // go to deleteProductSuccess.jsp
  }
}
```

EProductDAO.java

```
package com.ecommerce.dao;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.List;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.RowMapper;
import com.ecommerce.EProduct;
public class EProductDAO {
  JdbcTemplate template;
  public void setTemplate(JdbcTemplate template) {
     this.template = template;
  }
  // Business methods
  public List<EProduct> getProducts() {
     return template.query("select * from eproduct", new RowMapper<EProduct>()
{
       public EProduct mapRow(ResultSet rs, int row) throws SQLException {
          EProduct e = new EProduct();
          e.setID(rs.getInt(1));
          e.setName(rs.getString(2));
          e.setPrice(rs.getBigDecimal(3));
          e.setDateAdded(rs.getDate(4));
          return e;
     });
  public void addProduct(String name, float price) {
     String insertSQL = "insert into eproduct(name,price) values(?,?)";
     template.update(insertSQL, new Object[] { name, price });
  public void deleteProduct(int id) {
     String deleteSQL = "delete from eproduct where id=?";
     template.update(deleteSQL, new Object[] { id });
}
}
```

EProduct.java

```
package com.ecommerce;
import java.math.BigDecimal;
import java.util.Date;
public class EProduct {
  private long ID;
  private String name;
  private BigDecimal price;
  private Date dateAdded;
  public long getID() {return this.ID; }
  public String getName() { return this.name;}
  public BigDecimal getPrice() { return this.price;}
  public Date getDateAdded() { return this.dateAdded;}
  public void setID(long id) { this.ID = id;}
  public void setName(String name) { this.name = name;}
  public void setPrice(BigDecimal price) { this.price = price;}
  public void setDateAdded(Date date) { this.dateAdded = date;}
}
```

add-product.html

```
<h3> ADD a new Product here</h3>
<form action="addProduct" METHOD="POST">
NAME <input name="name"> <br>
PRICE <input name="price"> <br>
<input type=submit>
</form>
```

add-product.jsp

```
<h3> ADD a new Product here</h3>
<form action="addProduct" METHOD="POST">
NAME <input name="name"> <br>
PRICE <input name="price"> <br> <input type=submit>
</form>
```

delete-product.jsp

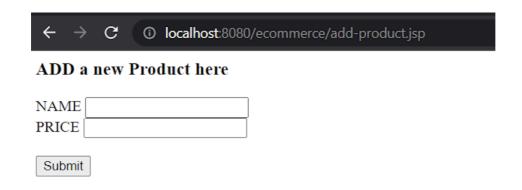
<h3> DELETE a Product here</h3>
<form action="deleteProduct" METHOD="POST">
ID <input name="id">
<input type=submit>
</form>



Spring Application

List Products

ADD Products DELETE Products

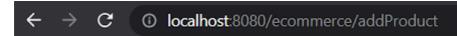


$\leftarrow \rightarrow c$	① localhost:8080/ecommerce/add-product.jsp
----------------------------	--

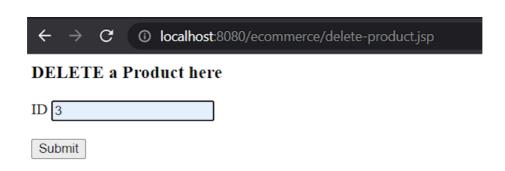
ADD a new Product here

NAME	орро
PRICE	12000

Submit



Product added successfuly!





Product deleted successfuly!

```
phase2
  register
sakila
  sys
  world
13 rows in set (0.02 sec)
mysql> select *from ecommerce;
ERROR 1046 (3D000): No database selected
mysql> use ecommerce;
Database changed
mysql> select *from ecommerce;
ERROR 1146 (42S02): Table 'ecommerce.ecommerce' doesn't exist
mysql> select *from table;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'table' at line 1
mysql> select *from eproduct;
  ID | name
                                   price
                                                    | date_added
                                                      2023-06-07 09:46:41
2023-06-07 09:48:44
2023-06-07 09:48:44
2023-06-07 11:16:58
2023-06-07 11:17:07
         HP Laptop ABC
                                        12000.00
                                      14000.00
192000.00
12000.00
         Acer Laptop ABC
         Lenovo Laptop ABC
    4
         oppo
                                       12000.00
         oppo
5 rows in set (0.00 sec)
```

