

## Java Assignment 06

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Create the following class in **com.slk.training.assignment6.entity** package:

```
public class Product {
    private Integer productId;
    private String productName;
    private Integer supplierId;
    private Integer categoryId;
    private String quantityPerUnit;
    private Double unitPrice;
    private Integer unitsInStock;
    private Integer unitsOnOrder;
    private Integer reorderLevel;
    private Integer discontinued;

    // no-argument constructor

    // getters and setters

}
```

Create the following interface in **com.slk.training.assignment6.dao** package

```
public interface ProductDao {
    public void add(Product product) throws DaoException;
    public Product get(Integer productId) throws DaoException;
    public void update(Product product) throws DaoException;
    public void delete(Integer productId) throws DaoException;

    public Integer getProductCount() throws DaoException;
    public List<Product> getAll() throws DaoException;
    public List<Product> getByPrice(Double min, Double max) throws DaoException;
    public List<Product> getOutOfStockProducts() throws DaoException;
    public List<Product> getDiscontinuedProducts() throws DaoException;
    public List<Product> getProductsByCategory(Integer categoryId) throws DaoException;
    public List<Product> getProductsBySupplier(Integer supplierId) throws DaoException;
}
```

Create a class "**ProductDaoJdbcImpl**" in **com.slk.training.assignment6.dao.impl** package which implements the **ProductDao** interface. Provide the method body for all the methods using JDBC code. The data is stored in the **PRODUCTS** table in **NORTHWIND** database.

Handle all exceptions appropriately.