



```

@Override
public void addProduct(Product p) throws DaoException {
    String SQL = "INSERT INTO products (id, name, price, quantity) VALUES (0, ?, ?, ?)";
    Connection con = null;

    try {
        con = DBUtil.getConnection();
        PreparedStatement ps = con.prepareStatement(SQL);
        ps.setString(1, p.getName());
        ps.setDouble(2, p.getPrice());
        ps.setInt(3, p.getQuantity());
        ps.executeUpdate();
    } catch (SQLException e) {
        throw new DaoException("unable to add product", e);
    } finally {
        DBUtil.closeConnection(con);
    }
}

@Override
public List<Product> getProducts() throws DaoException {
    String SQL = "SELECT id, name, price, quantity FROM products";
    List<Product> products = new ArrayList<>();
    Connection con = null;

    try {
        con = DBUtil.getConnection();
        Statement stmt = con.createStatement();
        ResultSet rs = stmt.executeQuery(SQL);
        while(rs.next()) {
            products.add(new Product(
                rs.getInt("id"),
                rs.getString("name"),
                rs.getDouble("price"),
                rs.getInt("quantity")
            ));
        }
    } catch (SQLException e) {
        throw new DaoException("unable to get products", e);
    } finally {
        DBUtil.closeConnection(con);
    }
    return products;
}
  
```

VS

```

EntityManager em;

public void addProduct(Product p) {
    em.persist(p);
}

public List<Product> getProducts() {
    Query query = em.createQuery(Product.class);
    return query.getResultList();
}
  
```

✓ 0000000000 → DataSource
Pool of DB Connections

