```
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
public class DBUtils {
  public static UserAccount findUser(Connection conn, //
                       String userName, String password) throws SQLException {
               String sql = "Select a.User_Name, a.Password, a.Gender from User_Account a " //
                               + " where a.User Name = ? and a.password= ?";
               PreparedStatement pstm = conn.prepareStatement(sql);
               pstm.setString(1, userName);
               pstm.setString(2, password);
               ResultSet rs = pstm.executeQuery();
               if (rs.next()) {
                       String gender = rs.getString("Gender");
                       UserAccount user = new UserAccount();
                       user.setUserName(userName);
                       user.setPassword(password);
                       user.setGender(gender);
                       return user;
               }
               return null;
```

```
}
public static UserAccount findUser(Connection conn, String userName) throws SQLException {
       String sql = "Select a.User_Name, a.Password, a.Gender from User_Account a "//
                       + " where a.User_Name = ? ";
       PreparedStatement pstm = conn.prepareStatement(sql);
        pstm.setString(1, userName);
       ResultSet rs = pstm.executeQuery();
       if (rs.next()) {
               String password = rs.getString("Password");
               String gender = rs.getString("Gender");
               UserAccount user = new UserAccount();
               user.setUserName(userName);
               user.setPassword(password);
               user.setGender(gender);
               return user;
       }
       return null;
}
```

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public static List<Product> queryProduct(Connection conn) throws SQLException {
    String sql = "Select a.Code, a.Name, a.Price from Product a ";
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PreparedStatement pstm = conn.prepareStatement(sql);

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ResultSet rs = pstm.executeQuery();
        List<Product> list = new ArrayList<Product>();
        while (rs.next()) {
                String code = rs.getString("Code");
                String name = rs.getString("Name");
                float price = rs.getFloat("Price");
                Product product = new Product();
                product.setCode(code);
                product.setName(name);
                product.setPrice(price);
                list.add(product);
        }
        return list;
}
public static Product findProduct(Connection conn, String code) throws SQLException {
        String sql = "Select a.Code, a.Name, a.Price from Product a where a.Code=?";
        PreparedStatement pstm = conn.prepareStatement(sql);
        pstm.setString(1, code);
        ResultSet rs = pstm.executeQuery();
        while (rs.next()) {
                String name = rs.getString("Name");
                float price = rs.getFloat("Price");
                Product product = new Product(code, name, price);
                return product;
        }
```

```
return null;
}
public static void updateProduct(Connection conn, Product product) throws SQLException {
       String sql = "Update Product set Name =?, Price=? where Code=?";
       PreparedStatement pstm = conn.prepareStatement(sql);
       pstm.setString(1, product.getName());
        pstm.setFloat(2, product.getPrice());
       pstm.setString(3, product.getCode());
        pstm.executeUpdate();
}
public static void insertProduct(Connection conn, Product product) throws SQLException {
       String sql = "Insert into Product(Code, Name,Price) values (?,?,?)";
        PreparedStatement pstm = conn.prepareStatement(sql);
        pstm.setString(1, product.getCode());
       pstm.setString(2, product.getName());
        pstm.setFloat(3, product.getPrice());
        pstm.executeUpdate();
}
public static void deleteProduct(Connection conn, String code) throws SQLException {
       String sql = "Delete From Product where Code=?";
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PreparedStatement pstm = conn.prepareStatement(sql);
               pstm.setString(1, code);
               pstm.executeUpdate();
       }
    public static void insertUserAccount(Connection conn, UserAccount user) throws SQLException {
               String sql = "Insert into UserAccount(Username, Gender, Password) values (?,?,?)";
               PreparedStatement pstm = conn.prepareStatement(sql);
               pstm.setString(1, user.getUserName());
               pstm.setString(2, user.getGender());
               pstm.setString(3, user.getPassword());
               pstm.executeUpdate();
       }
}
```