

//>>>CCS/00215/019<<<

//JAVA 2 Assignment

//Thursday July 1st 2021

//A.SHOP CATALOGUE CLASS

```
import java.sql.*;
import java.util.ArrayList;

public class ShopCatalogue {
    private int id;
    private String name;
    private int price;

    static final String DB_URL ="jdbc:mysql://localhost/shopcatalogue";
    static final String USER = "postgres";
    static final String PASS = null;
    Connection conn = null;
    Statement stmt = null;
    PreparedStatement pstmt = null;

    public ShopCatalogue(String name, int price) {

        this.name = name;
        this.price = price;
    }
    public ShopCatalogue() {

    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public int getPrice() {
```

```

        return price;
    }

    public void setPrice(int price) {
        this.price = price;
    }

    public void displayAll() {
        try {

            conn = DriverManager.getConnection(DB_URL, USER, PASS);

            stmt = conn.createStatement();
            String sql;

            sql = "SELECT * FROM items";
            ResultSet rs = stmt.executeQuery(sql);

            while (rs.next()) {
                //Retrieve by column name
                this.id = rs.getInt("id");
                this.name = rs.getString("name");
                this.price = rs.getInt("price");

                //Display values
                System.out.print("ID: " + this.id);
                System.out.print(", Name: " + this.name);
                System.out.println(", Price: " + this.price);
            }

            rs.close();
            stmt.close();
            conn.close();

        } catch (SQLException se) {
            se.printStackTrace();
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            try {
                if (stmt != null)
                    stmt.close();
            } catch (SQLException se2) {
                // nothing we can do
            }
        }
    }

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        if (conn != null)
            conn.close();
    } catch (SQLException se) {
        se.printStackTrace();
    }
}

public Integer purchase(ArrayList<Integer> purchaseItemIds) {
    int total = 0;

    try {

        conn = DriverManager.getConnection(DB_URL, USER, PASS);

        for(Integer entryId : purchaseItemIds) {
            pstmt = conn.prepareStatement("SELECT * FROM items WHERE
id = ?");

            pstmt.setInt(1, entryId);

            ResultSet rs = pstmt.executeQuery();

            while (rs.next()) {
                this.id = rs.getInt("id");
                this.name = rs.getString("name");
                this.price = rs.getInt("price");

                System.out.print("ID: " + this.id);
                System.out.print(", Name: " + this.name);
                System.out.println(", Price: " + this.price);
                total += this.price;
            }
        }

        //
        rs.close();
        pstmt.close();
        conn.close();

    } catch (SQLException se) {
        se.printStackTrace();
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {

```

```

        if (pstmt != null)
            pstmt.close();
    } catch (SQLException se2) {
    }
    try {
        if (conn != null)
            conn.close();
    } catch (SQLException se) {
        se.printStackTrace();
    }
}

return total;
}

public void addItemToCatalogue() {
    try {

        conn = DriverManager.getConnection(DB_URL, USER, PASS);
        pstmt = conn.prepareStatement("INSERT INTO items(name,price)
VALUES(?,?)");
        pstmt.setString(1,this.name);
        pstmt.setInt(2, this.price);

        int i = pstmt.executeUpdate();
        System.out.println("Record: "+ i);

        pstmt.close();
        conn.close();

    } catch (SQLException se) {
        se.printStackTrace();
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {
            if (stmt != null)
                stmt.close();
        } catch (SQLException se2) {
        }
        try {
            if (conn != null)
                conn.close();
        } catch (SQLException se) {
            se.printStackTrace();
        }
    }
}

```

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## //B.IMPLEMENTATION CLASS

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