

Day 4 Classwork:

Unique Id: E0119023

Program:

```
package stv.stv;
import java.sql.*;

/**
 * Hello world!
 *
 */
import java.sql.*;

public class App
{
    public static void main( String[] args )
    {
        addProduct(1, "hello", 3);
        addProduct(10, "stv", 30);
        addProduct(11, "abcd", 31);
        addProduct(9, "asd", 29);
        delProduct(1);
        delProduct(9);
        display();
        changeName(10, "scale");
        display();
        changePrice(10, 20);
        display();
    }

    public static void addProduct(int id, String name, int price) {

        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root","");
            try {

                java.sql.Statement stmt=con.createStatement();
                int a=stmt.executeUpdate("insert into products values('"+id+"','"+name+"','"+price+"');");

                } catch (Exception e) {
                    // TODO: handle exception
                }
            finally {
                con.close();
            }
        } catch (Exception e) {
            // TODO: handle exception
        }
    }
}
```

```

    }

    public static void delProduct(int id) {
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root", "");
            try {

                java.sql.Statement stmt=con.createStatement();
                int a=stmt.executeUpdate("delete from products where id="+id+";");
                if(a==0)
                    System.out.print("No rows deleted");

                } catch (Exception e) {
                    // TODO: handle exception
                }
            finally {
                con.close();
            }
        } catch (Exception e) {
            // TODO: handle exception
        }
    }

    public static void changeName(int id, String newName) {
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root", "");
            try {

                java.sql.Statement stmt=con.createStatement();
                int a=stmt.executeUpdate("update products set name='"+newName+"' where id="+id+";");
                if(a==0)
                    System.out.print("No product is updated");
                else {
                    System.out.print("The product name is updated");
                }

                } catch (Exception e) {
                    // TODO: handle exception
                }
            finally {
                con.close();
            }
        }
    }

```

```

        } catch (Exception e) {
            // TODO: handle exception
        }

    }

    public static void changePrice(int id, int newPrice) {
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root","");
            try {

                java.sql.Statement stmt=con.createStatement();
                int a=stmt.executeUpdate("update products set price='"+newPrice+"' where id='"+id+"'");
                if(a==0)
                    System.out.print("No product is updated");
                else {
                    System.out.print("The product price is updated");
                }

            } catch (Exception e) {
                // TODO: handle exception
            }
            finally {
                con.close();
            }
        } catch (Exception e) {
            // TODO: handle exception
        }
    }

    public static void display()
    {
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root","");
            try {

                java.sql.Statement stmt=con.createStatement();

                ResultSet rs=stmt.executeQuery("select * from products");
                while(rs.next())
                {
                    System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));
                }

            } catch (Exception e) {
                // TODO: handle exception
            }
        }
    }

```

```

    }
    finally {
        con.close();
    }
} catch (Exception e) {
    // TODO: handle exception
}

}

}

```

Output:

Server: 127.0.0.1 » Database: stv » Table: products

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 1 (2 total, Query took 0.0014 seconds.)

SELECT * FROM `products`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

id	name	price
10	scale	20
11	abcd	31

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

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