

Practical 5

DisplayBookServlet.java

```
package com.ebookshop;
```

```
import javax.servlet.*;  
import javax.servlet.http.*;  
import java.io.*;  
import java.sql.*;
```

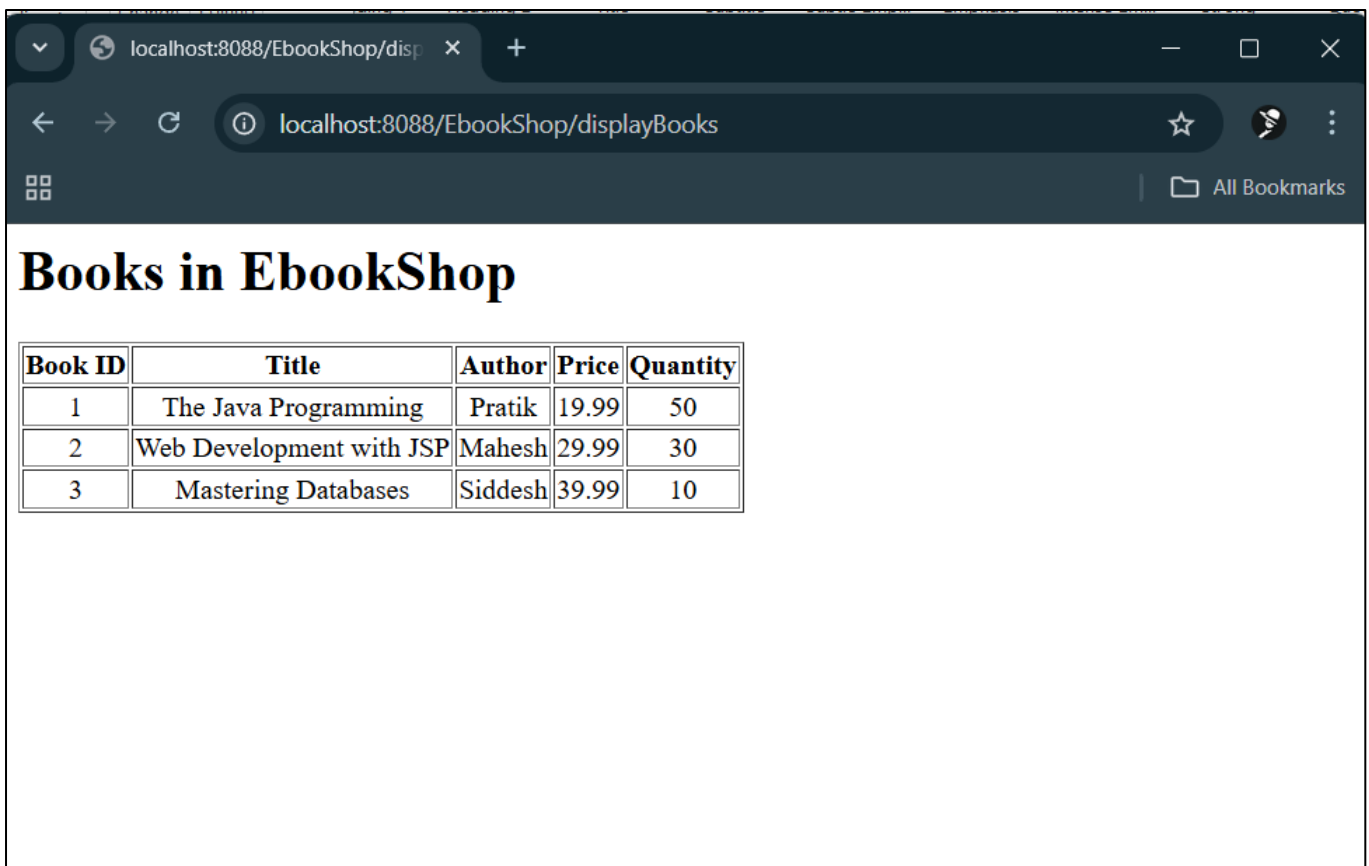
```
public class DisplayBooksServlet extends HttpServlet {  
    // Database credentials  
    private static final String JDBC_URL = "jdbc:mysql://localhost:3306/ebook";  
    private static final String JDBC_USER = "root";  
    private static final String JDBC_PASSWORD = "pratik";  
  
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException,  
    IOException {  
        response.setContentType("text/html");  
        PrintWriter out = response.getWriter();  
  
        // JDBC connection  
        try (Connection con = DriverManager.getConnection(JDBC_URL, JDBC_USER, JDBC_PASSWORD);  
            Statement stmt = con.createStatement();  
            ResultSet rs = stmt.executeQuery("SELECT * FROM ebookshop")) {  
  
            out.println("<html><body>");  
            out.println("<h1>Books in EbookShop</h1>");  
            out.println("<table border='1'>");  
            out.println("<tr><th>Book ID</th><th>Title</th><th>Author</th><th>Price</th><th>Quantity</th></tr>");  
  
            while (rs.next()) {  
                out.println("<tr>");  
                out.println("<td>" + rs.getInt("book_id") + "</td>");  
                out.println("<td>" + rs.getString("book_title") + "</td>");  
                out.println("<td>" + rs.getString("book_author") + "</td>");  
                out.println("<td>" + rs.getDouble("book_price") + "</td>");  
                out.println("<td>" + rs.getInt("quantity") + "</td>");  
                out.println("</tr>");  
            }  
  
            out.println("</table>");  
            out.println("</body></html>");  
        } catch (SQLException e) {  
            e.printStackTrace();  
            out.println("<p>Error: Unable to fetch data.</p>");  
        }  
    }  
  
    // Load JDBC driver at servlet initialization time  
    @Override  
    public void init() throws ServletException {  
        try {  
            Class.forName("com.mysql.cj.jdbc.Driver");  
        } catch (ClassNotFoundException e) {  
            throw new ServletException("JDBC Driver not found", e);  
        }  
    }  
}
```

```
}  
}  
}
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>  
<web-app xmlns="http://java.sun.com/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_4_0.xsd"  
version="4.0">  
  <servlet>  
    <servlet-name>DisplayBooksServlet</servlet-name>  
    <servlet-class>com.ebookshop.DisplayBooksServlet</servlet-class>  
  </servlet>  
  <servlet-mapping>  
    <servlet-name>DisplayBooksServlet</servlet-name>  
    <url-pattern>/displayBooks</url-pattern>  
  </servlet-mapping>  
</web-app>
```

Output :-



Books in EbookShop

Book ID	Title	Author	Price	Quantity
1	The Java Programming	Pratik	19.99	50
2	Web Development with JSP	Mahesh	29.99	30
3	Mastering Databases	Siddesh	39.99	10