

## LAB EXAM

### Web Based Java Programming

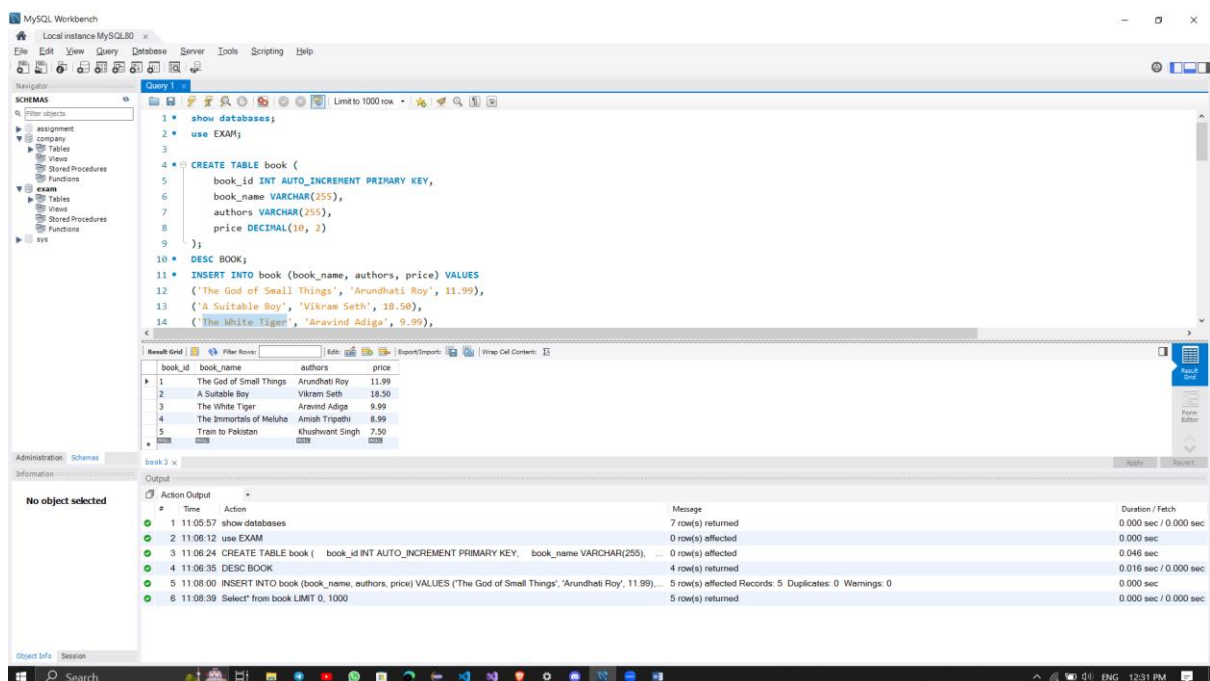
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Create a table in the database containing the columns to store book details like: book name, authors, & price.

Create a JSP page to search a book inside the book table and display the output.

### Database



### Web.xml

```
<!DOCTYPE web-app PUBLIC
"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_3.dtd" >
```

### <web-app>

```
<welcome-file-list>
  <welcome-file>
    input.html
  </welcome-file>
</welcome-file-list>
```

```
<servlet>
<servlet-name>books</servlet-name>
<jsp-file>/Search.jsp</jsp-file>
```

```

</servlet>

<servlet-mapping>
<servlet-name>books</servlet-name>
<url-pattern>/accept</url-pattern>
</servlet-mapping>

</web-app>

```

#### Input.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Search Book</h1>
<form method="post" action="Search.jsp">
<label for="book_name">Book Name:</label>
<input type="text" name="book_name" id="book_name">
<br>
<input type="submit" value="Search">
</form>
<hr>
</body>
</html>

```

#### Search.jsp

```

<%@page import="java.sql.*"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Search.jsp</title>
</head>
<body>
<%
    String bookName = request.getParameter("book_name");
    if(bookName != null && !bookName.isEmpty()) {
        Connection conn = null;
        PreparedStatement stmt = null;
        ResultSet rs = null;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/exam", "root",
"3206");
            String sql = "SELECT * FROM book WHERE book_name LIKE ?";

```

```

        stmt = conn.prepareStatement(sql);
        stmt.setString(1, "%" + bookName + "%");
        rs = stmt.executeQuery();
        while(rs.next()) {
            out.println("<p><b>Book Name:</b> " +
rs.getString("book_name") + "</p>");
            out.println("<p><b>Authors:</b> " +
rs.getString("authors") + "</p>");
            out.println("<p><b>Price:</b> " +
rs.getDouble("price") + "</p>");
            out.println("<hr>");
        }
    } catch(Exception e) {
        e.printStackTrace();
    } finally {
        try {
            if(rs != null) rs.close();
            if(stmt != null) stmt.close();
            if(conn != null) conn.close();
        } catch(Exception e) {
            e.printStackTrace();
        }
    }
}

%>
</body>
</html>

```

#### POM.XML

```

<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>cdac_tvm</groupId>
    <artifactId>WebJavaExam</artifactId>
    <packaging>war</packaging>
    <version>0.0.1-SNAPSHOT</version>
    <name>WebJavaExam Maven Webapp</name>
    <url>http://maven.apache.org</url>
    <dependencies>
        <dependency>
            <groupId>junit</groupId>
            <artifactId>junit</artifactId>
            <version>3.8.1</version>
            <scope>test</scope>
        </dependency>

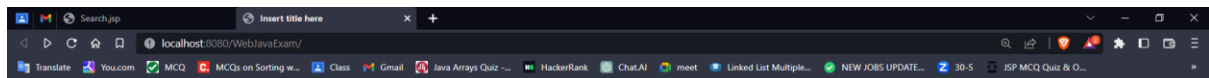
        <dependency>
            <groupId>mysql</groupId>
            <artifactId>mysql-connector-java</artifactId>
            <version>8.0.31</version>

```

```
</dependency>

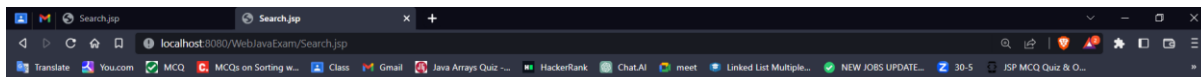
</dependencies>
<build>
  <finalName>WebJavaExam</finalName>
</build>
</project>
```

## Output



## Search Book

Book Name:



**Book Name:** A Suitable Boy

**Authors:** Vikram Seth

**Price:** 18.5

