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078

LAB EXAM

Web Based Java Programming

Q1.Create a table in the database containing the columns to store book details like: book name authors, & price.
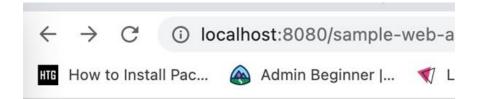
Create a JSP page to search a book inside the book table and display the output.

```jsp
<%@ page import="java.sql.*" %>

<html>

<head>

<title>Book Details</title>

</head>

<body>

<h1>Book Details</h1>

<%

// JDBC driver name and database URL

String JDBC_DRIVER = "com.mysql.jdbc.Driver";

String DB_URL = "jdbc:mysql://localhost:3306/new_schema";

// Database credentials

String USER = "root";

String PASS = "1234";

Connection conn = null;

Statement stmt = null;

try {

// Register JDBC driver

Class.forName(JDBC_DRIVER);
```

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```
// Open a connection

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

// Execute a query to retrieve all books

String sql = "SELECT * FROM lab_exam_books";

stmt = conn.createStatement();

ResultSet rs = stmt.executeQuery(sql);

// Generate HTML table to display book details

out.println("<table border=\"1\">");

out.println("<tr><th>ID</th><th>Book
Name</th><th>Authors</th><th>Price</th><th>Edit</th><th>Delete</th></tr>");

while (rs.next()) {

int id = rs.getInt("id");

String bookName = rs.getString("book_name");

String authors = rs.getString("authors");

double price = rs.getDouble("price");

out.println("<tr>");

out.println("<td>" + id + "</td>");

out.println("<td>" + bookName + "</td>");

out.println("<td>" + authors + "</td>");

out.println("<td>" + price + "</td>");

out.println("<td><a href=\"edit.jsp?id=" + id + "\">Edit</a></td>");

out.println("<td><a href=\"delete.jsp?id=" + id + "\">Delete</a></td>");

out.println("</tr>");

}

out.println("</table>");

// Clean-up environment
```

```
rs.close();

stmt.close();

conn.close();

} catch (Exception e) {

e.printStackTrace();

}

%>

<hr>

<h2>Add a New Book</h2>

<form action="add.jsp" method="post">

<label>Book Name:</label>

<input type="text" name="book_name"><br>

<label>Authors:</label>

<input type="text" name="authors"><br>

<label>Price:</label>

<input type="text" name="price"><br>

<input type="submit" value="Add Book">

</form>

</body>

</html>
```

```
ERROR 1050 (42S01): Table 'books' already exists
mysql> CREATE TABLE lab_exam_books (
    ->   id INT AUTO_INCREMENT PRIMARY KEY,
    ->   book_name VARCHAR(255),
    ->   authors VARCHAR(255),
    ->   price DECIMAL(10, 2)
    -> );
Query OK, 0 rows affected (0.00 sec)

mysql> insert into lab_exam_books(book_name,authors,price) values("book1","author1",120),("book2","author2",110);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql>
```

Book Details

ID	Book Name	Authors	Price	Edit	Delete
1	book1	author1	120.0	Edit	Delete
2	book2	author2	110.0	Edit	Delete

Add a New Book

Book Name: [   ]
Authors: [   ]
Price: [   ]
[Add Book]