

EX NO:8 DATE:

DATABASE CONNECTIVITY

AIM:

To write a program for the given problem using data base connectivity

ALGORITHM:

- STEP 1. Establish connection to the database
- STEP 2. Create statement object
- STEP 3. Execute SQL query to retrieve all records from the "untitled" table
- STEP 4. Iterate over the result set
 - 4.1. Display movie details in a table format
- STEP 5. Execute SQL query to count total number of movies
- STEP 6. Display total number of movies in a table
- STEP 7. Execute SQL query to calculate average price of movies
- STEP 8. Display average price in a table
- STEP 9. Execute SQL query to find director with highest average rating
- STEP 10. Display director's name in a table

PROGRAM:

```
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.Connection"%>
<%@page contentType="text/html" pageEncoding="UTF-8" import="java.sql.*"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  <title>JSP Page</title>
  </head>
  <body>
    <% Connection c=DriverManager.getConnection("jdbc:derby://localhost:1527/movies");
    Statement st=c.createStatement();
    ResultSet rs=st.executeQuery("select * from untitled");%>
    <table border="2">
      <tr><th>id</th><th>film</th><th>director</th><th>rating</th><th>price</th></tr>
    <% while(rs.next())
      {%>
      <tr><td><%out.println(rs.getInt(1));%></td>
      <td><%out.println(rs.getString(2));%></td>
```

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        <td><%out.println(rs.getString(3));%></td>
<td><%out.println(rs.getString(4));%></td>
        <td><%out.println(rs.getInt(5));%></td>

        <%}
%>
</table><br><br>
        <%
        ResultSet rs1=st.executeQuery("select * from untitled");
int total=0;    while(rs1.next()){        total++;
    } %>
        <table border="2">
            <tr><th>Total number of movies</th></tr>
            <tr><td><%= total %>;</td></tr>
        </table>
        </table><br><br>
        <%
        ResultSet rs2=st.executeQuery("select AVG(price) as avg_price from untitled");
int avg=0;    while(rs2.next()){
    avg=rs2.getInt("avg_price");
    } %>
        <table border="2">
            <tr><th>average</th></tr>
            <tr><td><%= avg %>;</td></tr>
        </table>

        </table><br><br>
        <%

        ResultSet rs3 = st.executeQuery("SELECT director FROM untitled GROUP BY director
ORDER BY AVG(rating) DESC");
        String topDirector = "";
        if (rs3.next()) {
            topDirector = rs3.getString("director");

        } %>
        <table border="2">
            <tr><th>category with highest total</th></tr>
            <tr><td><%= topDirector %>;</td></tr>
        </table>
    </body>
</html>

```

OUTPUT:

id	film	director	rating	price
1	Harry potter	JK Rowling	10	5000
2	Baahubali	Rajamouli	9	2000
3	Vikram	Lokesh	8	500
4	Bigil	Atlee	7	650
5	Stranger things	Duffer brothers	10	3000

Total number of movies
5;

average
2230;

category with highest total
JK Rowling;

Code/Output (20)	
Quiz (5)	
Record (5)	
Total (30)	
Initial	

RESULT:

The program for the given problem is executed and output is verified successfully