

**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>
```

```

<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:

<b>id</b>	<b>film</b>	<b>director</b>	<b>rating</b>	<b>price</b>
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;

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

## RESULT:

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