MUMBAI EDUCATIONAL TRUST

MET INSTITUTE OF COMPUTER SCIENCE

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Bhujbal Knowledge City

Practical No. :	10
Roll No. :	1520
Title of Practical :	JSTL Tags
Objective :	1. **Write a JSP program using JSTL Tags to Display all Movies from the Database &** 2. **Insert into the database table.**

CODE :

DisplayMovies.jsp

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ taglib prefix = "c" uri ="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix = "sql" uri ="http://java.sun.com/jsp/jstl/sql" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Display All Movies</title>
</head>
<body>
<h1>Display Movies</h1>
<sql:setDataSource var="myDs" driver="org.postgresql.Driver"
url="jdbc:postgresql://localhost:5432/postgres" user="postgres"
password="password" />
```

```
<!-- Pass the Query -->
<sql:query var="rs" dataSource="${myDs}">Select * from Movies</sql:query>
<table border="1">
        <thead>
        <tr>
                <th>MID</th>
                <th>TITLE</th>
                <th>DIRECTOR</th>
                <th>DURATION</th>
        </tr>
        </thead>
        <tbody>
        <c:forEach var="row" items="${rs.rows}">
                <tr>
                        <td><c:out value="${row.mid}"> </c:out></td>
                        <td><c:out value="${row.mname}"> </c:out></td>
                        <td><c:out value="${row.director}"> </c:out></td>
                        <td><c:out value="${row.duration}"> </c:out></td>
                </tr>
        </c:forEach>
        </tbody>
</table>
</body>
</html>
```

InsertMovies.jsp

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ taglib prefix = "c" uri ="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix = "sql" uri ="http://java.sun.com/jsp/jstl/sql" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```html
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Insert a Movie</title>
</head>
<body>
<h1>Insert into Movies Table</h1>

        <form action="AddMovie.jsp">
        <table>
                <tr>
                <td>Movie Id: </td><td><input type="text" name="mid"/></td>
                </tr>
                <tr>
                <td>Movie Name: </td><td><input type="text"
name="mname"/></td>
                </tr>
                <tr>
                <td>Movie Director: </td><td><input type="text"
name="director"/></td>
                </tr>
                <tr>
                <td>Movie Duration: </td><td><input type="text"
name="duration"/></td>
                </tr>
                <tr>
                <td><input type="submit" name="sub" value="Insert"/></td>
                </tr>
                </table>
        </form>

</body>
</html>
```

AddMovie.jsp

```jsp
<?xml version="1.0" encoding="ISO-8859-1" ?>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ taglib prefix = "c" uri ="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix = "sql" uri ="http://java.sun.com/jsp/jstl/sql" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
```

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Results Page</title>
</head>
<body>
<!-- Convert String to Integer-->
<fmt:parseNumber var="intmid" value="${param.mid}"></fmt:parseNumber>
<fmt:parseNumber var="intdur" value="${param.duration}"></fmt:parseNumber>

<!-- Set Data Source -->
<sql:setDataSource var="myDs" driver="org.postgresql.Driver"
url="jdbc:postgresql://localhost:5432/postgres" user="postgres"
password="password" />

<!-- Pass the Query -->
<sql:update var="rowCnt" dataSource="${myDs}">
   insert into movies(mid, mname, director, duration) values (?, ?, ?, ?);
   <sql:param value="${intmid}" />
   <sql:param value="${param.mname}" />
   <sql:param value="${param.director}" />
   <sql:param value="${intdur}" />
</sql:update>

<!-- Success Message -->
<p>Movie inserted successfully!</p>
<a href ="IndertMovie.jsp">Add Another Movie</a>

</body>
</html>
```

OUTPUT :

← C ⓘ localhost:8080/MoviesDisplay/DisplayMovies.jsp

Display Movies

MID	TITLE	DIRECTOR	DURATION
101	Kabhi Khushi Kabhi Gum	Karan	210
103	Kalki	Sharan	160
104	Pushpa	Om	190
102	3 Idiots	Sharan	180
105	The Mummy	George	200

← → C ⓘ localhost:8080/MoviesDisplay/InsertMovie.jsp

Insert into Movies Table

Movie Id: 106

Movie Name: Jumanji

Movie Director: Robert

Movie Duration: 220

Insert

← C ⓘ localhost:8080/MoviesDisplay/AddMovie.jsp?mid=106

Movie inserted successfully!

Add Another Movie

pgAdmin4 Database Table

	mid integer	mname character varying (50)	director character varying (50)	duration integer
1	101	Kabhi Khushi Kabhi G...	Karan	210
2	103	Kalki	Sharan	160
3	104	Pushpa	Om	190
4	102	3 Idiots	Sharan	180
5	105	The Mummy	George	200
6	106	Jumanji	Robert	220

localhost:8080/MoviesDisplay/DisplayMovies.jsp

Display Movies

MID	TITLE	DIRECTOR	DURATION
101	Kabhi Khushi Kabhi Gum	Karan	210
103	Kalki	Sharan	160
104	Pushpa	Om	190
102	3 Idiots	Sharan	180
105	The Mummy	George	200
106	Jumanji	Robert	220
106	Jumanji	Robert	220
107	Star Wars	William	240