

JSTL SQL <SQL:DATEPARAM> TAG

http://www.tutorialspoint.com/jsp/jstl_sql_dateparam_tag.htm

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The <sql:dateParam> tag is used as a nested action for <sql:query> and <sql:update> supply a date and time value for a value placeholder. If a null value is provided, the value is set to SQL NULL for the placeholder.

Attribute:

The <sql:dateParam> tag has following attributes:

Attribute	Description	Required	Default
value	Value of the date parameter to set <i>java.util.Date</i>	No	Body
type	DATE <i>dateonly</i> , TIME <i>timeonly</i> , or TIMESTAMP <i>dateandtime</i>	No	TIMESTAMP

Example:

To start with basic concept, let us create a simple table **Students** table in TEST database and create few records in that table as follows:

Step 1:

Open a **Command Prompt** and change to the installation directory as follows:

```
C:\>
C:\>cd Program Files\MySQL\bin
C:\Program Files\MySQL\bin>
```

Step 2:

Login to database as follows

```
C:\Program Files\MySQL\bin>mysql -u root -p
Enter password: *****
mysql>
```

Step 3:

Create the table **Employee** in **TEST** database as follows:

```
mysql> use TEST;
mysql> create table Students
(
  id int not null,
  first varchar (255),
  last varchar (255),
  dob date
);
Query OK, 0 rows affected (0.08 sec)
mysql>
```

Create Data Records

Finally you create few records in Employee table as follows:

```
mysql> INSERT INTO Students
VALUES (100, 'Zara', 'Ali', '2002/05/16');
Query OK, 1 row affected (0.05 sec)
```

```
mysql> INSERT INTO Students
        VALUES (101, 'Mahnaz', 'Fatma', '1978/11/28');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Students
        VALUES (102, 'Zaid', 'Khan', '1980/10/10');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Students
        VALUES (103, 'Sumit', 'Mittal', '1971/05/08');
Query OK, 1 row affected (0.00 sec)

mysql>
```

Now let us write a JSP which will make use of <sql:update> along with <sql:param> and <sql:dataParam> to execute a SQL UPDATE statement to update date of birth for Zara:

```
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*" %>
<%@ page import="java.util.Date,java.text.*" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql"%>

<html>
<head>
<title>JSTL sql:dataParam Tag</title>
</head>
<body>

<sql:setDataSource var="snapshot" driver="com.mysql.jdbc.Driver"
    url="jdbc:mysql://localhost/TEST"
    user="root" password="pass123"/>

<%
Date DoB = new Date("2001/12/16");
int studentId = 100;
%>

<sql:update dataSource="${snapshot}" var="count">
    UPDATE Students SET dob = ? WHERE Id = ?
    <sql:dateParam value="<%=DoB%>" type="DATE" />
    <sql:param value="<%=studentId%>" />
</sql:update>

<sql:query dataSource="${snapshot}" var="result">
    SELECT * from Students;
</sql:query>

<table border="1" width="100%">
<tr>
    <th>Emp ID</th>
    <th>First Name</th>
    <th>Last Name</th>
    <th>DoB</th>
</tr>
<c:forEach var="row" items="${result.rows}">
<tr>
    <td><c:out value="${row.id}"/></td>
    <td><c:out value="${row.first}"/></td>
    <td><c:out value="${row.last}"/></td>
    <td><c:out value="${row.dob}"/></td>
</tr>
</c:forEach>
</table>

</body>
</html>
```

Now try to access above JSP, which should display the following result after updating dob from 2002/05/16 to 2001/12/16 for the record with ID=100:

Emp ID	First Name	Last Name	DoB
100	Zara	Ali	2001-12-16
101	Mahnaz	Fatma	1978-11-28
102	Zaid	Khan	1980-10-10
103	Sumit	Mittal	1971-05-08

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