

JSTL SQL <SQL:UPDATE> TAG

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

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The <sql:update> tag executes an SQL statement that does not return data, for example SQL INSERT, UPDATE, or DELETE statements.

Attribute:

The <sql:update> tag has following attributes:

Attribute	Description	Required	Default
sql	SQL command to execute <i>shouldnotreturnaResultSet</i>	No	Body
dataSource	Database connection to use <i>overridesdefault</i>	No	Default database
var	Name of the variable to store the count of affected rows	No	None
scope	Scope of the variable to store the count of affected rows	No	Page

Example:

To start with basic concept, let us create a simple table **Employees** 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 Employees
(
    id int not null,
    age int not null,
    first varchar (255),
    last varchar (255)
);
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 Employees VALUES (100, 18, 'Zara', 'Ali');
Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO Employees VALUES (101, 25, 'Mahnaz', 'Fatma');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Employees VALUES (102, 30, 'Zaid', 'Khan');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Employees VALUES (103, 28, 'Sumit', 'Mittal');
Query OK, 1 row affected (0.00 sec)

mysql>
```

Now let us write a JSP which will make use of <sql:update> to execute a SQL INSERT statement to create one record in the table as follows:

```
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*" %>
<%@ 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:update Tag</title>
</head>
<body>

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

<sql:update dataSource="${snapshot}" var="count">
    INSERT INTO Employees VALUES (104, 2, 'Nuha', 'Ali');
</sql:update>

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

<table border="1" width="100%">
<tr>
<th>Emp ID</th>
<th>First Name</th>
<th>Last Name</th>
<th>Age</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.age}"/></td>
</tr>
</c:forEach>
</table>

</body>
</html>
```

Now try to access above JSP, which should display the following result:

Emp ID	First Name	Last Name	Age
--------	------------	-----------	-----

100	Zara	Ali	18
101	Mahnaz	Fatma	25
102	Zaid	Khan	30
103	Sumit	Mittal	28
104	Nula	Ali	2

Similar way you can try SQL UPDATE and DELETE statements on the same table.

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