

JSTL SQL <SQL:QUERY> TAG

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

Copyright © tutorialspoint.com

The <sql:query> tag executes an SQL SELECT statement and saves the result in a scoped variable.

Attribute:

The <sql:query> tag has following attributes:

Attribute	Description	Required	Default
sql	SQL command to execute <i>shouldreturnResultSet</i>	No	Body
dataSource	Database connection to use <i>overrides the default</i>	No	Default database
maxRows	Maximum number of results to store in the variable	No	Unlimited
startRow	Number of the row in the result at which to start recording	No	0
var	Name of the variable to represent the database	No	Set default
scope	Scope of variable to expose the result from the database	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:query> to execute a SQL SELECT statement 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:query Tag</title>
</head>
<body>

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

<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

Loading [MathJax]/jax/output/HTML-CSS/jax.js