

# Configuring UnityJDBC for Web Server Deployment

## Overview

This document explains how to configure UnityJDBC for deployment on a web server, specifically Tomcat version 7.0. Other web servers are similar. The instructions assume you have already installed Tomcat and have successfully tested UnityJDBC in stand-alone mode using the provided hsqldb test database.

## Step #1 – Install the JARs

The unityjdbc.jar and hsqldb.jar should be copied into the lib directory of your web server installation (e.g. Tomcat 7.0/lib). Copy over the JARs for your databases into the lib directory. For connection pool support, use the supplied jars for tomcat-dbcp or commons-pool or download the most recent versions.

## Step #2 – Install the Web Application

The web application is in the directory webserver/unity. Copy the web application into your webapps directory of your webserver (e.g. Tomcat 7.0/webapps).

Some important files:

**META-INF/context.xml** – contains the configuration for connection pool support using either the commons-dbcp library or the Tomcat DBCP library.

**WEB-INF/classes/** - directory contains F\_Double.java which is an example of a user-defined function (UDF) and mapping.xml which informs UnityJDBC about this function.

**index.jsp** – an example query without connection pools that uses the supplied hsqldb and an URL to an absolute path on the server

**udf.jsp** – example query demonstrating a user-defined function

**pool.jsp** – demonstrates using UnityJDBC with a connection pool

**mongo.jsp** – demonstrates querying using MongoDB JDBC driver (separate from Unity)

**mongo\_jstl.jsp** – demonstrates querying using MongoDB JDBC and JSTL

**unity\_jstl.jsp** – demonstrates querying using UnityJDBC and JSTL

### **Step #3 – Test Basic Querying**

**IMPORTANT:** Absolute file paths should be used for the sources URL and finding the schema files. Relative paths are challenging as the base directory is the startup location of your web server software.

There are several locations where you must change the absolute paths to match the path of your webapps directory:

- META-INF/context.xml – the urls for the connection pools need to point to the location of the source file. It is recommended that this location is not web accessible.
- index.jsp (and all other test JSP files) – specify the url as an absolute path

Once these modifications are complete, make sure the hsqldb test database is started. Displaying index.jsp in the web browser should display a query result.