**HINT :** My hosting tomcat system provides only **20** db connections

My working project in localhsot

<bean id="dataSource" class="org.springframework.jdbc.datasource.DriverManagerDataSource"

p:driverClassName="${jdbc.driverClassName}" p:url="${jdbc.url}"

p:username="${jdbc.username}" p:password="${jdbc.password}" />

This worked good in localhost, but in production it run for a while and **Exception :** "user has allready max no of connection".

*After many google*

**I used c3p0**

<bean id="dataSource" class="com.mchange.v2.c3p0.ComboPooledDataSource" destroy-method="close" >

<property name="driverClass" value="${jdbc.driverClassName}" />

<property name="jdbcUrl" value="${jdbc.url}" />

<property name="user" value="${jdbc.username}"/>

<property name="password" value="${jdbc.password}"/>

</bean>

This worked in localhost, but same problem in production server

**Hint:** I think some config in c3p0 can solve this. Please help me with you suggestion (My hosting provides only 20 connections)

**Also i tried tomcat**

<bean id="dataSource" class="org.apache.tomcat.jdbc.pool.DataSourceFactory">

<property name="driverClassName" value="${jdbc.driverClassName}" />

<property name="url" value="${jdbc.url}" />

<property name="username" value="${jdbc.username}"/>

<property name="password" value="${jdbc.password}"/>

<property name="maxActive" value="20"/>

</bean>

The above tomcat code is wrong and will not work - because wrong property (I know that). How to set this for my production use(only 20 connections)

*If you know how to use tomcat pool please help us.*

**I also used bonecp**

<bean id="dataSource" class="com.jolbox.bonecp.BoneCPDataSource" destroy-method="close" >

<property name="driverClass" value="${jdbc.driverClassName}" />

<property name="jdbcUrl" value="${jdbc.url}" />

<property name="username" value="${jdbc.username}"/>

<property name="password" value="${jdbc.password}"/>

<property name="idleConnectionTestPeriod" value="60"/>

<property name="idleMaxAge" value="240"/>

<property name="maxConnectionsPerPartition" value="10"/>

<property name="minConnectionsPerPartition" value="5"/>

<property name="partitionCount" value="1"/>

<property name="acquireIncrement" value="5"/>

<property name="statementsCacheSize" value="1000"/>

<property name="releaseHelperThreads" value="3"/>

</bean>

This worked in localhost but same problem in production "user has to many connections".

**I also tried apache-dbcp**

As per tomcat 7 documentation - dbcp is no longer and tomcat will be bundled with pool. Even though i used dbcp and i cannot run my program. (I added only one jar and error was some class not found during project run)

***As per my own idea :***

I think above mentioned settings will be problem. Please help me with your suggestions. I'm not using hibernate up to now because of heavy weight. If hibernate can solve this problem please let us know.

**EDITED**

Currently I'm using this code. Is this code correct to my use(20 connection)

<bean id="dataSource" class="com.mchange.v2.c3p0.ComboPooledDataSource" destroy-method="close"

p:driverClass="${jdbc.driverClassName}" p:jdbcUrl="${jdbc.url}"

p:user="${jdbc.username}" p:password="${jdbc.password}"

p:acquireIncrement="1"

p:checkoutTimeout="1"

p:idleConnectionTestPeriod="5"

p:maxIdleTime="5"

p:maxIdleTimeExcessConnections="1"

p:maxPoolSize="20" p:maxStatements="0" p:maxStatementsPerConnection="0"

p:minPoolSize="1"

p:numHelperThreads="100"

p:overrideDefaultUser="${jdbc.username}" p:overrideDefaultPassword="${jdbc.password}"

p:propertyCycle="3"

p:testConnectionOnCheckin="true"

p:unreturnedConnectionTimeout="5" />

This is my final c3p0 settings:

<bean id="dataSource" class="com.mchange.v2.c3p0.ComboPooledDataSource" destroy-method="close"

p:driverClass="${jdbc.driverClassName}" p:jdbcUrl="${jdbc.url}"

p:user="${jdbc.username}" p:password="${jdbc.password}"

p:acquireIncrement="1"

p:checkoutTimeout="3000"

p:idleConnectionTestPeriod="5"

p:maxIdleTime="3"

p:maxIdleTimeExcessConnections="1"

p:maxPoolSize="20" p:maxStatements="20000" p:maxStatementsPerConnection="1000"

p:minPoolSize="1"

p:numHelperThreads="1000"

p:overrideDefaultUser="${jdbc.username}" p:overrideDefaultPassword="${jdbc.password}"

p:propertyCycle="3"

p:statementCacheNumDeferredCloseThreads="1"

p:testConnectionOnCheckin="true"

p:unreturnedConnectionTimeout="7" />