JDBC连接池的testQuery/validationQuery设置

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在《[Tomcat中使用Connector/J连接MySQL的超时问题](http://blog.sina.com.cn/s/blog_72ef7bea0101hnz9.html)》帖子中想要增加对连接池中连接的测试/验证，防止数据库认为连接已死而Web应用服务器认为连接还有效的问题，Mysql文档中提到Tomcat文档中的例子中用的是validationQuery，但是网上还有很多帖子写的是testQuery，到底用哪一个呢？

原来这跟连接池的实现有关：

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| **连接池实现** | **该功能属性名** |
| [The Tomcat JDBC Connection Pool](https://tomcat.apache.org/tomcat-7.0-doc/jdbc-pool.html) | validationQuery |
| [The Apache Commons DBCP Connection Pool](http://commons.apache.org/proper/commons-dbcp/configuration.html) | validationQuery |
| [c3p0 - JDBC3 Connection and Statement Pooling](http://www.mchange.com/projects/c3p0/#preferredTestQuery) | preferredTestQuery |
| [Atomikos：Tomcat Spring ActiveMQ MySQL JMX Integration](http://www.atomikos.com/Documentation/TomcatSpringActiveMQMySQLJMXIntegration) [分析Atomikos数据连接池源码，弄清testQuery](http://blog.csdn.net/fbysss/article/details/5393626) | testQuery |

此外，测试/验证连接池连接的SQL语句也因数据库而异：  
[Efficient SQL test query or validation query that will work across all (or most) databases](http://stackoverflow.com/questions/3668506/efficient-sql-test-query-or-validation-query-that-will-work-across-all-or-most)  
[DBCP - validationQuery for different Databases](http://vondrnotes.blogspot.com.au/2012/05/validationquery-for-different-databases.html)  
  
综合上述两个帖子，汇总结果如下：

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| **数据库** | **测试/验证查询** |
| MySQL | SELECT 1 |
| PostgreSQL | SELECT 1 |
| Microsoft SQL Server | SELECT 1 |
| SQLite | SELECT 1 |
| H2 | SELECT 1 |
| Ingres | SELECT 1 |
| Oracle | select 1 from dual |
| DB2 | select 1 from sysibm.sysdummy1 或 SELECT current date FROM sysibm.sysdummy1 |
| Apache Derby | VALUES 1 FROM SYSIBM.SYSDUMMY1 或 SELECT 1 FROM SYSIBM.SYSDUMMY1 |
| HSQLDB | SELECT 1 FROM any\_existing\_table WHERE 1=0 或 SELECT 1 FROM INFORMATION\_SCHEMA.SYSTEM\_USERS |
| Informix | select count(\*) from systables |