



## Review Supported Technologies



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## Help and Support Resources

If you do not find answers to your questions here, please contact your Pentaho technical support representative.

Support-related questions should be submitted through the Pentaho Customer Support Portal at <http://support.pentaho.com>.

For information about how to purchase support or enable an additional named support contact, please contact your sales representative, or send an email to [sales@pentaho.com](mailto:sales@pentaho.com).

For information about instructor-led training, visit <http://www.pentaho.com/training>.

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## Third-Party Open Source Software

For a listing of open source software used by each Pentaho component, navigate to the folder that contains the Pentaho component. Within that folder, locate a folder named licenses. The licenses folder contains HTML files that list the names of open source software, their licenses, and required attributions.

## Contact Us

Global Headquarters Pentaho Corporation  
Citadel International, Suite 340  
5950 Hazelhine National Drive  
Orlando, FL 32822  
Phone: +1 407 812-OPEN (6736)  
Fax: +1 407 517-4575  
<http://www.pentaho.com>  
Sales Inquiries: [sales@pentaho.com](mailto:sales@pentaho.com)

# Contents

Components Reference.....4

JDBC Drivers Reference..... 9

# Components Reference

Pentaho aims to accommodate diverse computing environments. This list provides details about the environment components and versions we support. If you have questions about your particular computing environment, please contact Pentaho support.

## Server

Pentaho server software is hardware-independent and runs on server-class computers that comply with these specifications for minimum hardware and required operation systems.

- Pentaho Business Analysis Server
- Pentaho Data Integration Server

Hardware—64 bit	Operating System—64 bit
<ul style="list-style-type: none"> <li>• Apple Macintosh Pro Quad-Core or Macintosh Mini Quad-Core</li> <li>• Intel EM64T or AMD64 Dual-Core</li> </ul> <p><b>RAM:</b> 8 GB with 4 GB dedicated to Pentaho servers</p> <p><b>Disk Space:</b> 20 GB free after installation</p>	<ul style="list-style-type: none"> <li>• Apple Macintosh OS X Server 10.7 &amp; 10.8</li> <li>• CentOS Linux 5 &amp; 6</li> <li>• Microsoft Windows 2008 Server R2</li> <li>• Red Hat Enterprise Linux 5 &amp; 6</li> <li>• Solaris 10</li> <li>• Ubuntu Server 10.x &amp; 12.x</li> </ul>

## Workstation

These Pentaho design tools are hardware-independent and run on client-class computers that comply with these specifications for minimum hardware and required operation systems.

- Pentaho Aggregation Designer
- Pentaho Data Integration
- Pentaho Metadata Editor
- Pentaho Report Designer
- Pentaho Schema Workbench

Hardware—32 or 64 bit	Operating System—32 or 64 bit
<p><b>Processors:</b></p> <ul style="list-style-type: none"> <li>• Apple Macintosh Dual-Core, 64 bit only</li> <li>• Intel EM64T or AMD64 Dual-Core</li> </ul> <p><b>RAM:</b> 2 GB RAM for most of the design tools, PDI requires 2 GB dedicated</p> <p><b>Disk Space:</b> 2 GB free after installation</p> <p><b>Minimum Screen Size:</b> 1280 x 960</p>	<ul style="list-style-type: none"> <li>• Apple Macintosh OS 10.7 &amp; 10.8, 64 bit only</li> <li>• Microsoft Windows 7</li> <li>• Ubuntu Desktop 12.x</li> </ul>

## Embedded Software

When embedding Pentaho software into other applications, the computing environment should comply with these specifications for minimum hardware and required operation systems.

- Embedded Pentaho Reporting
- Embedded Pentaho Analysis
- Embedded Pentaho Data Integration

Hardware—64 bit	Operating System—64 bit
<p><b>Processors:</b></p> <ul style="list-style-type: none"> <li>• Apple Macintosh Pro Quad-Core or Macintosh Mini Quad-Core</li> </ul>	<ul style="list-style-type: none"> <li>• Apple Macintosh OS X Server 10.7 &amp; 10.8</li> <li>• CentOS Linux 5 &amp; 6</li> <li>• Microsoft Windows 2008 Server R2</li> </ul>

Hardware—64 bit	Operating System—64 bit
<ul style="list-style-type: none"> <li>Intel EM64T or AMD64 Dual-Core</li> </ul> <b>RAM:</b> 8 GB with 4 GB dedicated to Pentaho servers <b>Disk Space:</b> 20 GB free after installation	<ul style="list-style-type: none"> <li>Microsoft Windows 7</li> <li>Red Hat Enterprise Linux 5 &amp; 6</li> <li>Solaris 10</li> <li>Ubuntu Server 10.x &amp; 12.x</li> </ul>

### Application Servers

Servers to which you deploy Pentaho software must run one of these application servers.

Pentaho Software	Application Server
Pentaho Business Analysis Server Pentaho Data Integration Server	<ul style="list-style-type: none"> <li>JBoss 7.x (EAP 6.x.x)</li> <li>Tomcat 6.0.x</li> </ul>

### Solution Database Repositories

Pentaho software stores processing artifacts in these solution database repositories.

Pentaho Software	Database Repository
Pentaho Business Analysis Server Pentaho Data Integration Server	<ul style="list-style-type: none"> <li>MySQL 5.x</li> <li>Oracle 10g/11i</li> <li>PostgreSQL 8.4 &amp; 9.1.x*</li> </ul>

\*Default installed solution database

### Data Sources

Pentaho software connects to these relational and non-relational data sources.

Pentaho Software	Data Source
Pentaho Reporting	<ul style="list-style-type: none"> <li>JDBC 3**</li> <li>ODBC</li> <li>OLAP4J</li> <li>XML</li> <li>MongoDB 2.4</li> <li>Pentaho Analysis</li> <li>Pentaho Data Integration</li> <li>Pentaho Metadata</li> <li>Scriptable</li> </ul>
Pentaho Business Analysis Server, Action Sequences	<ul style="list-style-type: none"> <li>Relational (JDBC)</li> <li>Hibernate</li> <li>Javascript</li> <li>Metadata (MQL)</li> <li>Mondrian (MDX)</li> <li>XML (XQuery)</li> <li>Security User/Role List Provider</li> <li>Data Integration Steps (PDI)</li> <li>Other Action Sequences</li> <li>Web Services</li> <li>XMLA</li> </ul>
Pentaho Data Integration	<ul style="list-style-type: none"> <li>JDBC 3**</li> <li>OLAP4J</li> </ul>

Pentaho Software	Data Source
	<ul style="list-style-type: none"> <li>• Salesforce</li> <li>• XML</li> <li>• CSV</li> <li>• Microsoft Excel</li> <li>• Pentaho Analysis</li> <li>• Hadoop distributions, <a href="#">click here for versions</a> <ul style="list-style-type: none"> <li>• Cloudera</li> <li>• Intel</li> <li>• Hortonworks</li> <li>• MapR</li> </ul> </li> <li>• Cassandra distributions, <a href="#">click here for versions</a> <ul style="list-style-type: none"> <li>• Apache 1.2.x</li> <li>• DataStax DSE 3.1, includes Cassandra 1.2.x</li> </ul> </li> <li>• MongoDB 2.4</li> </ul>

\*\*Use a JDBC 3.x compliant driver that is compatible with SQL-92 standards when communicating with relational data sources. For your convenience, we provide a [list of drivers](#) used to get data from relational JDBC databases.

### SQL Dialect-Specific

Pentaho software generates dialect-specific SQL when communicating with these data sources.

Pentaho Software	Data Source
<b>Pentaho Analysis</b>	<ul style="list-style-type: none"> <li>• Access</li> <li>• Amazon Redshift</li> <li>• DB2</li> <li>• Derby</li> <li>• Firebird</li> <li>• Greenplum</li> <li>• Hsqldb</li> <li>• Impala***</li> <li>• Infobright</li> <li>• Informix</li> <li>• Ingres</li> <li>• Interbase</li> <li>• LucidDb</li> <li>• MicrosoftSqlServer</li> <li>• MonetDB</li> <li>• MySql</li> <li>• Neoview</li> <li>• Netezza</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• SqlStream</li> <li>• Sybase</li> <li>• Teradata</li> <li>• Vectorwise</li> <li>• Vertica</li> <li>• Other SQL-92 compliant****</li> </ul>
<b>Pentaho Metadata</b>	<ul style="list-style-type: none"> <li>• Amazon Redshift</li> <li>• DB2</li> </ul>

Pentaho Software	Data Source
	<ul style="list-style-type: none"> <li>• Firebird</li> <li>• H2</li> <li>• Hive 2</li> <li>• Hypersonic</li> <li>• Impala</li> <li>• Ingres</li> <li>• MS Access</li> <li>• ASSQL</li> <li>• MSSQLNative</li> <li>• MySQL</li> <li>• Netezza</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Sybase</li> <li>• Vertica</li> <li>• Other SQL-92 compliant****</li> </ul>
<b>Pentaho Data Integration</b>	<ul style="list-style-type: none"> <li>• Apache Derby</li> <li>• AS/400</li> <li>• InfiniDB</li> <li>• Exasol 4</li> <li>• Firebird SQL</li> <li>• Greenplum</li> <li>• H2</li> <li>• Hive</li> <li>• Hive 2</li> <li>• Hypersonic</li> <li>• IBM DB2</li> <li>• Impala</li> <li>• Infobright</li> <li>• Informix</li> <li>• Ingres</li> <li>• Ingres VectorWise</li> <li>• LucidDB</li> <li>• MaxDB (SAP DB)</li> <li>• MonetDB</li> <li>• MySQL</li> <li>• MS SQL Server</li> <li>• Neoview</li> <li>• Netezza</li> <li>• Oracle</li> <li>• Oracle RDB</li> <li>• PostgreSQL</li> <li>• SQLite</li> <li>• Teradata</li> <li>• UniVerse database</li> <li>• Vertica</li> <li>• Other SQL-92 compliant****</li> </ul>

\*\*\*Current capability supports only a single table and does not support star or snowflake schemas

\*\*\*\*If your data source is not in this list and is compatible with SQL-92, Pentaho software uses a generic SQL dialect.

## Security

Pentaho software integrates with these third-party security authentication systems.

Pentaho Software	Authentication System
Pentaho Business Analysis Server Pentaho Data Integration Server	<ul style="list-style-type: none"> <li>• Active Directory</li> <li>• CAS</li> <li>• Integrated Microsoft Windows Authentication</li> <li>• LDAP</li> <li>• RDBMS</li> </ul>

## Java Virtual Machine

All Pentaho software, except the Pentaho Mobile App, requires the Sun/Oracle version 1.7 distribution of the Java Runtime Environment (JRE) or Java Development Kit (JDK).

## Web Browsers

Pentaho supports these major versions of Web browsers that are publicly available six weeks prior to when Pentaho begins to finalize a release. We also support the preceding major version.

Pentaho Software	Web Browser
Pentaho User Console Pentaho Report Designer*****	<ul style="list-style-type: none"> <li>• Apple Safari 5.x &amp; 6.x on OSX only</li> <li>• Google Chrome</li> <li>• Microsoft Internet Explorer 8, 9, &amp; 10</li> <li>• Mozilla Firefox</li> </ul>

\*\*\*\*\*Requires a web browser to preview exported HTML reports.

## Mobile Apps

The Pentaho mobile app runs on the Apple iPad 2 & 3, with iOS 5.x & 6.x, using Safari 5.x & 6.x.

# JDBC Drivers Reference

This reference is a continuous work in progress. If you are viewing it in the Pentaho InfoCenter and see something that is not correct, know of a driver that is not listed here, or have a tip you want to share, please let us know by using the comments fields found in the bottom right corner.

Database	Vendor	URL
<i>Apache Derby</i>	IBM	<a href="http://db.apache.org/derby/derby_downloads.html">http://db.apache.org/derby/derby_downloads.html</a>
<i>Cache'</i>	InterSystems	<a href="http://www.cachemonitor.de/intersystems-documentation/cache-jdbc-driver">http://www.cachemonitor.de/intersystems-documentation/cache-jdbc-driver</a>
<i>CUBRID</i>	CUBRID	<a href="http://www.cubrid.org/?mid=downloadsitem=jdbc_driver">http://www.cubrid.org/?mid=downloadsitem=jdbc_driver</a>
<i>Daffodil DB</i>	Daffodil Software	<a href="http://sourceforge.net/projects/daffodildb/">http://sourceforge.net/projects/daffodildb/</a>
<i>DB2 AS/400</i>	IBM	<a href="http://www-03.ibm.com/systems/i/software/toolbox/">http://www-03.ibm.com/systems/i/software/toolbox/</a>
<i>DB2 Universal Database</i>	IBM	<a href="http://www-306.ibm.com/software/data/db2/java">http://www-306.ibm.com/software/data/db2/java</a>
<i>Firebird</i>	Firebird Foundation	<a href="http://www.firebirdsql.org/en/jdbc-driver/">http://www.firebirdsql.org/en/jdbc-driver/</a>
<i>FrontBase</i>	FrontBase	<a href="http://www.frontbase.com/cgi-bin/WebObjects/FBWebSite">http://www.frontbase.com/cgi-bin/WebObjects/FBWebSite</a>
<i>Greenplum</i>	EMC2	<a href="http://jdbc.postgresql.org/download.html">http://jdbc.postgresql.org/download.html</a>
<i>H2 Database</i>	H2	<a href="http://www.h2database.com">http://www.h2database.com</a>
<i>Hive</i>	Apache	<a href="http://hive.apache.org/">http://hive.apache.org/</a>
<i>Hive2</i>	Apache	
<i>HSQldb</i>	HyperSQL	<a href="http://sourceforge.net/projects/hsqldb/">http://sourceforge.net/projects/hsqldb/</a>
<i>Impala</i>	Cloudera	<a href="http://www.cloudera.com/content/cloudera-content/cloudera-docs/Impala/latest/Installing-and-Using-Impala/ciiu_impala_jdbc.html">http://www.cloudera.com/content/cloudera-content/cloudera-docs/Impala/latest/Installing-and-Using-Impala/ciiu_impala_jdbc.html</a>
<i>Informix</i>	IBM	<a href="http://www-01.ibm.com/software/">http://www-01.ibm.com/software/</a>
<i>Ingres</i>	Action	<a href="http://esd.action.com/product/drivers/JDBC/java">http://esd.action.com/product/drivers/JDBC/java</a>
<i>InterBase</i>	Embarcadero	<a href="http://edn.embarcadero.com">http://edn.embarcadero.com</a>
<i>jTDS Free MS Sybase</i>	jTDS	<a href="http://jtds.sourceforge.net/">http://jtds.sourceforge.net/</a>
<i>LucidDB</i>	DynamoDB	<a href="http://www.dynamobi.com/c/downloads/stable/">http://www.dynamobi.com/c/downloads/stable/</a>
<i>MaxDB</i>	SAP	<a href="http://maxdb.sap.com">http://maxdb.sap.com</a>
<i>Mckoi</i>	Mckoi SQL Database	<a href="http://www.mckoi.com/originalmckoisql/index.html">http://www.mckoi.com/originalmckoisql/index.html</a>
<i>Mimer</i>	Mimer Information Technology	<a href="http://www.mimer.com">http://www.mimer.com</a>
<i>MonetDB</i>	MonetDB	<a href="http://www.monetdb.org/">http://www.monetdb.org/</a>

Database	Vendor	URL
<a href="#">MySQL</a>	Oracle	<a href="http://dev.mysql.com/downloads/connector/j/">http://dev.mysql.com/downloads/connector/j/</a>
<a href="#">Neoview</a>	HP	<a href="https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=NEO10">https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=NEO10</a>
<a href="#">Netezza</a>	IBM	<a href="http://www.netezza.com">http://www.netezza.com</a>
<a href="#">OpenBase SQL</a>	OpenBase International	<a href="http://www.openbase.com/index.php/products/downloads">http://www.openbase.com/index.php/products/downloads</a>
<a href="#">Oracle</a>	Oracle	<a href="http://www.oracle.com/technetwork/database/features/jdbc/index.html">http://www.oracle.com/technetwork/database/features/jdbc/index.html</a>
<a href="#">Pervasive</a>	Pervasive	<a href="http://www.pervasivedb.com/download/Pages/PDBDownloads.aspx">http://www.pervasivedb.com/download/Pages/PDBDownloads.aspx</a>
<a href="#">PostgreSQL</a>	PostgreSQL Global Development Group	<a href="http://jdbc.postgresql.org/">http://jdbc.postgresql.org/</a>
<a href="#">SAP DB</a>	SAP DB	<a href="http://www.sapdb.org/sap_db_jdbc.htm">http://www.sapdb.org/sap_db_jdbc.htm</a>
<a href="#">SQLite</a>	Xerial	<a href="http://www.xerial.org/trac/Xerial/wiki/SQLiteJDBC">http://www.xerial.org/trac/Xerial/wiki/SQLiteJDBC</a>
<a href="#">SQL Server</a>	Microsoft	<a href="http://msdn.microsoft.com/en-us/sqlserver/aa937724.aspx">http://msdn.microsoft.com/en-us/sqlserver/aa937724.aspx</a>
<a href="#">Sybase ASE</a>	SAP	<a href="http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect">http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect</a>
<a href="#">Sybase SQL Anywhere</a>	SAP	<a href="http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect">http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect</a>
<a href="#">SmallSQL</a>	SmallSQL	<a href="http://www.smallsql.de/download.html">http://www.smallsql.de/download.html</a>
<a href="#">Teradata</a>	Teradata	<a href="http://downloads.teradata.com/download/connectivity/jdbc-driver">http://downloads.teradata.com/download/connectivity/jdbc-driver</a>
<a href="#">Vertica</a>	HP	<a href="http://www.vertica.com">http://www.vertica.com</a>

## Apache Derby

Vendor Name	Details
Recommended Native Driver	
IBM	<b>Company URL</b> <a href="http://www.ibm.com">http://www.ibm.com</a>
	<b>Driver URL</b> <a href="http://db.apache.org/derby/derby_downloads.html">http://db.apache.org/derby/derby_downloads.html</a>
	<b>JDBC URL Syntax by Type</b> Server—jdbc:derby://<server>[:<port>]/<databaseName>[:<URL attribute>=>value] Embedded—jdbc:derby:<databaseName>[:create=true]
	<b>Default Port</b> 1527

Vendor Name	Details	
	<b>JDBC Class</b> org.apache.derby.jdbc.ClientDriver org.apache.derby.jdbc.EmbeddedDriver	<b>JDBC JAR File Name</b> derby.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration	
	<b>Comments</b> Open source database	

### Caché

Vendor Name	Details	
Recommended Native Driver		
InterSystems	<b>Company URL</b> <a href="http://www.cachemonitor.de">http://www.cachemonitor.de</a>	
	<b>Driver URL</b> <a href="http://www.cachemonitor.de/intersystems-documentation/cache-jdbc-driver">http://www.cachemonitor.de/intersystems-documentation/cache-jdbc-driver</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:Cache:// <server>[:<port>]/<namespace>	<b>Default Port</b> 1972
	<b>JDBC Class</b> com.intersys.jdbc.CacheDriver	<b>JDBC JAR File Name</b> cachedb.jar

### CUBRID

Vendor Name	Details	
Recommended Native Driver		
CUBRID	<b>Company URL</b> <a href="http://www.cubrid.org">http://www.cubrid.org</a>	
	<b>Driver URL</b> <a href="http://www.cubrid.org/?mid=downloads&amp;item=jdbc_driver">http://www.cubrid.org/?mid=downloads&amp;item=jdbc_driver</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:cubrid:<server>:<port>: <databaseName>:<username>: <password> :[?<URL attribute>=<value> [&<URL attribute>=<value>] ... ]	<b>Default Port</b> 33000
	<b>JDBC Class</b> cubrid.jdbc.driver.CUBRIDDriver	<b>JDBC JAR File Name</b> N/A
	<b>Comments</b>	

Vendor Name	Details
	Open source database highly optimized for Web applications.

**Daffodil DB**

Vendor Name	Details	
Recommended Native Driver		
Daffodil Software	<b>Company URL</b> <a href="http://db.daffodilsw.com">http://db.daffodilsw.com</a>	
	<b>Driver URL</b> <a href="http://sourceforge.net/projects/daffodildb/">http://sourceforge.net/projects/daffodildb/</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:daffodilDB://<server>[:<port>]/<databaseName>  Embedded— jdbc:daffodilDB_embedded:<databaseName>	<b>Default Port</b> 3456  N/A
	<b>JDBC Class</b> in.co.daffodil.db.rmi.RmiDaffodilDBDriver  in.co.daffodil.db.jdbc.DaffodilDBDriver	<b>JDBC JAR File Name</b> DaffodilDB_client.jar  DaffodilDB_Embedded.jar, DaffodilDB_Common.jar
	<b>Comments</b> Open source database	

**DB2 AS/400**

Vendor Name	Details	
Recommended Native Driver		
IBM	<b>Company URL</b> <a href="http://www.ibm.com">http://www.ibm.com</a>	
	<b>Driver URL</b> <a href="http://www-03.ibm.com/systems/i/software/toolbox/">http://www-03.ibm.com/systems/i/software/toolbox/</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:as400:// <server>naming=sql;errors=full	<b>Default Port</b> N/A
	<b>JDBC Class</b> com.ibm.as400.access.AS400JDBCDBDriver	<b>JDBC JAR File Name</b> jt400.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration	

## DB2 Universal Database

Vendor Name		Details	
Recommended Native Driver			
IBM	<b>Company URL</b> <a href="http://www.ibm.com">http://www.ibm.com</a>		
	<b>Driver URL</b> <a href="http://www-306.ibm.com/software/data/db2/java">http://www-306.ibm.com/software/data/db2/java</a>		
	<b>JDBC URL Syntax by Type</b> Server—jdbc:db2://<server>[:<port>]/<databaseName>[:<URL attribute>=<value>]		<b>Default Port</b> 50000
	<b>JDBC Class</b> com.frontbase.jdbc.FBJDriver		<b>JDBC JAR File Name</b> frontbasejdbc.jar

## Firebird

Vendor Name	Details	
Recommended Native Driver		
Firebird Foundation	<b>Company URL</b> <a href="http://www.firebirdsql.org">http://www.firebirdsql.org</a>	
	<b>Driver URL</b> <a href="http://www.firebirdsql.org/en/jdbc-driver/">http://www.firebirdsql.org/en/jdbc-driver/</a>	
	<b>JDBC URL Syntax by Type</b>	<b>Default Port</b>
	Server—jdbc:firebirdsql:<server>[/<port>]:/<database-file> (JDBC Type 4, official format) Server—jdbc:firebirdsql://<server>[:<port>]/<database-file> (JDBC Type 4, compatibility format) Server—jdbc:firebirdsql:native//<server>[/<port>]:/<database-file> (JDBC Type 2, compatibility format) Server—jdbc:firebirdsql:native://<server>[:<port>]/<database-file> (JDBC Type 2, compatibility format. Requires libraries) Embedded— jdbc:firebirdsql:embedded:/<local-database-file>	3050 3050 3050 3050 N/A

Vendor Name	Details	
	(JDBC Type 2, compatibility format. Requires libraries)	
	<b>JDBC Class</b> org.firebirdsql.jdbc.FBDriver	<b>JDBC JAR File Name</b> jaybird-full-xxx.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration	

**FrontBase**

Vendor Name	Details	
Recommended Native Driver		
FrontBase	<b>Company URL</b> <a href="http://www.frontbase.com">http://www.frontbase.com</a>	
	<b>Driver URL</b> <a href="http://www.frontbase.com/cgi-bin/WebObjects/FBWebSite">http://www.frontbase.com/cgi-bin/WebObjects/FBWebSite</a>	
	<b>JDBC URL Syntax by Type</b> Server— jdbc:FrontBase://<host>[:<port>]/<databaseName>	<b>Default Port</b> N/A
	<b>JDBC Class</b> com.frontbase.jdbc.FBJDriver	<b>JDBC JAR File Name</b> frontbasejdbc.jar

**Greenplum**

Vendor Name	Details	
Recommended Native Driver		
Greenplum	<b>Company URL</b> <a href="http://www.greenplum.com">http://www.greenplum.com</a>	
	<b>Driver URL</b> <a href="http://jdbc.postgresql.org/download.html">http://jdbc.postgresql.org/download.html</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:postgresql:// <server>[:<port>]/<databaseName>	<b>Default Port</b> 5342
	<b>JDBC Class</b> org.postgresql.Driver	<b>JDBC JAR File Name</b> postgresql-8.x-xxx.jdbc4.jar
	<b>Comments</b> Greenplum uses the Postgresql JDBC driver	

**H2 Database**

Vendor Name	Details	
Recommended Native Driver		
H2	<b>Company URL</b> <a href="http://www.h2database.com">http://www.h2database.com</a>	
	<b>Driver URL</b> <a href="http://www.h2database.com">http://www.h2database.com</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:h2:tcp://server[:port]/file-path Embedded—jdbc:h2:file-name	<b>Default Port</b> 9092 N/A
	<b>JDBC Class</b> jdbc:h2:tcp://server[:port]/file-path org.h2.Driver	<b>JDBC JAR File Name</b> h2-x.x.xxx.jar
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"><li>• Pentaho Business Analysis Server</li><li>• Pentaho Data Integration</li><li>• Pentaho Metadata-Editor</li></ul> Pentaho Report-Designer	
	<b>Comments</b> Open source Java SQL database	

**Hive**

Vendor Name	Details	
Recommended Native Driver		
Apache	<b>Company URL</b> <a href="http://hive.apache.org/">http://hive.apache.org/</a>	
	<b>Driver URL</b> Built in	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:hive://<server>[:<port>]/default	<b>Default Port</b> 10000
	<b>JDBC Class</b> org.apache.hadoop.hive.jdbc.HiveDriver	<b>JDBC JAR File Name</b> pentaho-hadoop-hive-jdbc-shim-x.x.x.jar
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"><li>• Pentaho Business Analysis Server</li><li>• Pentaho Data Integration</li></ul>	

Vendor Name	Details
	<ul style="list-style-type: none"> <li>Pentaho Metadata-Editor</li> <li>Pentaho Report-Designer</li> </ul>
	<b>Comments</b> <p>The pentaho-hadoop-hive-jdbc-shim-xxx.jar library is a proxy driver. The actual Hive JDBC implementation for the specific distribution and version of Hadoop is located in the Pentaho Configuration (shim) for that distro. See <a href="#">Hadoop Configuraiton</a> for more information.</p> <p>Hive does not support the full SQL capabilities. It uses a subset and is more accurately referred to as HiveQL.</p>

## Hive2

Vendor Name	Details	
Recommended Native Driver		
Apache	<b>Company URL</b> <a href="http://hive.apache.org/">http://hive.apache.org/</a>	
	<b>Driver URL</b> Built in	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:hive2:// <server>[:<port>]/<db>	<b>Default Port</b> 10000
	<b>JDBC Class</b> org.apache.hive.jdbc. HiveDriver	<b>JDBC JAR File Name</b> pentaho-hadoop-hive-jdbc-shim- x.x.x.jar
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"><li>• Pentaho Business Analysis Server</li><li>• Pentaho Data Integration</li><li>• Pentaho Metadata-Editor</li><li>• Pentaho Report-Designer</li></ul>	
	<b>Comments</b> <p>The pentaho-hadoop-hive-jdbc-shim-xxx.jar library is a proxy driver. The actual Hive JDBC implementation for the specific distribution and version of Hadoop is located in the Pentaho Configuration (shim) for that distro. See <a href="#">Hadoop Configuraiton</a> for more information.</p> <p>Hive2 does not support the full SQL capabilities. It uses a subset and is more accurately referred to as HiveQL.</p>	

## HSQldb

Vendor Name	Details
Recommended Native Driver	
HyperSQL	<b>Company URL</b> <a href="http://www.hsqldb.org">http://www.hsqldb.org</a>

Vendor Name	Details	
	<b>Driver URL</b> <a href="http://sourceforge.net/projects/hsqldb/">http://sourceforge.net/projects/hsqldb/</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:hsqldb:hsq:// <server>[:<port>]/<databaseName> Embedded Memory— jdbc:hsqldb:mem:<databaseName> Embedded File — jdbc:hsqldb:file:<database-file>	<b>Default Port</b> 9001 N/A N/A
	<b>JDBC Class</b> org.hsqldb.jdbcDriver	<b>JDBC JAR File Name</b> hsqldb.jar
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"> <li>• Pentaho Enterprise-Console</li> <li>• Pentaho Business Analysis Server</li> <li>• Pentaho Aggregation-Designer</li> <li>• Pentaho Data Integration</li> <li>• Pentaho Metadata-Editor</li> <li>• Pentaho Report-Designer</li> </ul>	

## Impala

Vendor Name	Details	
Recommended Native Driver		
Cloudera	<b>Company URL</b> <a href="http://cloudera.com">http://cloudera.com</a>	
	<b>Driver URL</b> Built in	
	<b>JDBC URL Syntax by Type</b> jdbc:hive2:// <server>[<port>];auth=noSasl	<b>Default Port</b> 21050
	<b>JDBC Class</b> org.apache.hadoop.hive.jdbc. HiveDriver	<b>JDBC JAR File Name</b> pentaho-hadoop-hive-jdbc-shim- x.x.x.jar
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"><li>• Pentaho Business Analysis Server</li><li>• Pentaho Data Integration</li><li>• Pentaho Metadata-Editor</li><li>• Pentaho Report-Designer</li></ul>	
	<b>Comments</b> The pentaho-hadoop-hive-jdbc-shim-xxx.jar library is a proxy driver. The actual Hive JDBC implementation for the specific distribution and version of	

Vendor Name	Details
	<p>Hadoop is located in the Pentaho Configuration (shim) for that distro. See <a href="#">Hadoop Configuraiton</a> for more information.</p> <p>Hive does not support the full SQL capabilities. It uses a subset and is more accurately referred to as HiveQL.</p>

**Informix**

Vendor Name	Details	
Recommended Native Driver		
IBM	<b>Company URL</b> <a href="http://www.ibm.com">http://www.ibm.com</a>	
	<b>Driver URL</b> <a href="http://www14.software.ibm.com/webapp/download/search.jsp?go=y&amp;rs=ifxjdbc">http://www14.software.ibm.com/webapp/download/search.jsp?go=y&amp;rs=ifxjdbc</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:informix-sqli://<server>[:<port>]/<databaseName>:informixserver=<dbservername>	<b>Default Port</b> 1533
	<b>JDBC Class</b> com.informix.jdbc.IfxDriver	<b>JDBC JAR File Name</b> ifxjdbc.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration	

**Ingres**

Vendor Name		Details	
Recommended Native Driver			
Actian	<b>Company URL</b> <a href="http://www.actian.com/">http://www.actian.com/</a>		
	<b>Driver URL</b> <a href="http://esd.actian.com/product/drivers/JDBC/java">http://esd.actian.com/product/drivers/JDBC/java</a>		
	<b>JDBC URL Syntax by Type</b> Server—jdbc:ingres:// <server>[:<port>]/<databaseName>		<b>Default Port</b> 21071
	<b>JDBC Class</b> com.ingres.jdbc.IngresDriver		<b>JDBC JAR File Name</b> iijdbc.jar
	<b>Comments</b> Open source relational database management system		

**InterBase**

Vendor Name		Details	
Recommended Native Driver			
Embarcadero	<b>Company URL</b> <a href="http://edn.embarcadero.com">http://edn.embarcadero.com</a>		
	<b>Driver URL</b> N/A		
	<b>JDBC URL Syntax by Type</b> Server—jdbc:interbase://<server>/<full_db_path>	<b>Default Port</b> N/A	
	<b>JDBC Class</b> interbase.interclient.Driver	<b>JDBC JAR File Name</b> interclient.jar	
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration		

**JTDS Free MS SQL Sybase**

Vendor Name		Details	
Recommended Native Driver			
jTDS	<b>Company URL</b> <a href="http://jtds.sourceforge.net/">http://jtds.sourceforge.net/</a>		
	<b>Driver URL</b> N/A		
	<b>JDBC URL Syntax by Type</b> SQL Server— jdbc:jtds:<server_type>// <server>[:<port>][/<database>] [;<property>=<value>[:...]]]  Sybase—jdbc:jtds:<server_type>:// <server>[:<port>][/<database>]	<b>Default Port</b>  1433 7100	
	<b>JDBC Class</b> interbase.interclient.Driver	<b>JDBC JAR File Name</b> jtds-x.x.x.jar	
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"><li>• Pentaho Enterprise-Console</li><li>• Pentaho Business Analysis Server</li><li>• Pentaho Aggregation-Designer</li><li>• Pentaho Data Integration</li><li>• Pentaho Metadata-Editor</li><li>• Pentaho Report-Designer</li></ul>		

**LucidDB**

Vendor Name	Details	
Recommended Native Driver		
DynamoDB	<b>Company URL</b> <a href="http://www.dynamobi.com">http://www.dynamobi.com</a>	
	<b>Driver URL</b> <a href="http://www.dynamobi.com/c/downloads/stable/">http://www.dynamobi.com/c/downloads/stable/</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:uciddb:http:// <server>[:<port>]	<b>Default Port</b> 8034
	<b>JDBC Class</b> org.uciddb.jdbc.LucidDbClientDriver	<b>JDBC JAR File Name</b> LucidDbClient-x.x.x.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration	
	<b>Comments</b> Open source BI solution for Big Data	

**MaxDB**

Vendor Name		Details	
Recommended Native Driver			
SAP	<b>Company URL</b> <a href="http://www.sap.com">http://www.sap.com</a>		
	<b>Driver URL</b> <a href="http://maxdb.sap.com">http://maxdb.sap.com</a>		
	<b>JDBC URL Syntax by Type</b> Server—jdbc:sapdb:// <server>[:<port>]/<databaseName>		<b>Default Port</b> 7210
	<b>JDBC Class</b> com.sap.dbtech.jdbc.DriverSapDB		<b>JDBC JAR File Name</b> sapdbc.jar
	<b>Comments</b> Database management system developed and supported by SAP AG		

**Mckoi SQL Database**

Vendor Name		Details	
Recommended Native Driver			
Mckoi		Company URL <a href="http://www.mckoi.com">http://www.mckoi.com</a>	
		Driver URL	

Vendor Name	Details	
	<a href="http://www.mckoi.com/originalmckoisql/index.html">http://www.mckoi.com/originalmckoisql/index.html</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:mckoi:// <server>[:<port>][/<schema>]/	<b>Default Port</b> 9157
	<b>JDBC Class</b> com.mckoi.JDBCDriver	<b>JDBC JAR File Name</b> mckoidb.jar
	<b>Comments</b> Open source SQL database written in Java	

**Mimer**

Vendor Name	Details	
Recommended Native Driver		
Mimer Information Technology	<b>Company URL</b> <a href="http://www.mimer.com">http://www.mimer.com</a>	
	<b>Driver URL</b> N/A	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:mimer:<protocol>://<server>[:<port>]/<database>	<b>Default Port</b> 1360
	<b>JDBC Class</b> com.mimer.jdbc.Driver	<b>JDBC JAR File Name</b> mimer.jar

**MonetDB**

Vendor Name	Details	
Recommended Native Driver		
MonetDB	<b>Company URL</b> <a href="http://www.monetdb.org">http://www.monetdb.org</a>	
	<b>Driver URL</b> N/A	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:monetdb:// <server>[:<port>]/<database>	<b>Default Port</b> 50000
	<b>JDBC Class</b> nl.cwi.monetdb.jdbc.MonetDriver	<b>JDBC JAR File Name</b> monetdb-jdbc-x.x.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration	

Vendor Name	Details
	<b>Comments</b> An open source database system

## MY SQL

Vendor Name	Details	
Recommended Native Driver		
Oracle	<b>Company URL</b> <a href="http://www.mysql.com">http://www.mysql.com</a>	
	<b>Driver URL</b> <a href="http://dev.mysql.com/downloads/connector/j/">http://dev.mysql.com/downloads/connector/j/</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:mysql:// <hostname>[,<failoverhost> [:<port>] /<dbname>[?<URL attribute>=<value>[&<URL attribute>=<value>] ... ]	<b>Default Port</b>  3306
	<b>JDBC Class</b> com.mysql.jdbc.Driver (official class name)  org.gjt.mm.mysql.Driver (older class name)	<b>JDBC JAR File Name</b> mysql-connector-java-5.x.xx-bin.jar
	<b>Shipped with Pentaho Product</b> <ul style="list-style-type: none"><li>• Pentaho Enterprise-Console</li><li>• Pentaho Business Analysis Server</li><li>• Pentaho Aggregation-Designer</li><li>• Pentaho Metadata-Editor</li><li>• Pentaho Report-Designer</li></ul>	

## Neoview

Vendor Name	Details	
Recommended Native Driver		
HP	<b>Company URL</b> <a href="http://www.hp.com">http://www.hp.com</a>	
	<b>Driver URL</b> <a href="https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=NEO10">https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=NEO10</a>	
	<table> <tr> <td> <b>JDBC URL Syntax by Type</b>  Server—jdbc:hpt4jdbc://  &lt;system&gt;[:&lt;port&gt;][:][&lt;URL  attribute&gt;= </td><td> <b>Default Port</b>  18650 </td></tr> </table>	<b>JDBC URL Syntax by Type</b> Server—jdbc:hpt4jdbc:// <system>[:<port>][:][<URL attribute>=
<b>JDBC URL Syntax by Type</b> Server—jdbc:hpt4jdbc:// <system>[:<port>][:][<URL attribute>=	<b>Default Port</b> 18650	

Vendor Name	Details	
	<value>[;<URL attribute>=<value> ...]	
	<b>JDBC Class</b> com.hp.t4jdbc.HPT4Driver	<b>JDBC JAR File Name</b> N/A

**Netezza**

Vendor Name	Details	
Recommended Native Driver		
IBM	<b>Company URL</b> <a href="http://www.netezza.com">http://www.netezza.com</a>	
	<b>Driver URL</b> N/A	
	<b>JDBC URL Syntax by Type</b> jdbc:netezza://<server>[:<port>]/<database>	<b>Default Port</b> 5480
	<b>JDBC Class</b> org.netezza.Driver	<b>JDBC JAR File Name</b> N/A

**OpenBase SQL**

Vendor Name	Details	
Recommended Native Driver		
OpenBase International	<b>Company URL</b> <a href="http://www.openbase.com">http://www.openbase.com</a>	
	<b>Driver URL</b> <a href="http://www.openbase.com/index.php/products/downloads">http://www.openbase.com/index.php/products/downloads</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:openbase://<server>/<databaseName>	<b>Default Port</b> N/A
	<b>JDBC Class</b> com.openbase.jdbc.ObDriver	<b>JDBC JAR File Name</b> OpenBaseJDBC.jar

**Oracle**

Vendor Name		Details	
Recommended Native Driver			
Oracle		Company URL	
		<a href="http://www.oracle.com">http://www.oracle.com</a>	
		Driver URL	

Vendor Name	Details	
	<a href="http://www.oracle.com/technetwork/database/features/jdbc/index.html">http://www.oracle.com/technetwork/database/features/jdbc/index.html</a>	
	<b>JDBC URL Syntax by Type</b> Thin Server— jdbc:oracle:thin:@<server>[:<port>]:<sid> OCI Server —jdbc:oracle:oci:@<server>[:<port>]:<sid>	<b>Default Port</b> 1521
	<b>JDBC Class</b> oracle.jdbc.driver.OracleDriver oracle.jdbc.OracleDriver	<b>JDBC JAR File Name</b> ojdbcx.jar, ora18n.jar
	<b>Comments</b> The OCI server requires OCI libraries	

### Pervasive

Vendor Name	Details	
Recommended Native Driver		
Pervasive	<b>Company URL</b> <a href="http://www.pervasivedb.com/Pages/default.aspx">http://www.pervasivedb.com/Pages/default.aspx</a>	
	<b>Driver URL</b> <a href="http://www.pervasivedb.com/download/Pages/PDBDownloads.aspx">http://www.pervasivedb.com/download/Pages/PDBDownloads.aspx</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:pervasive:// <server>[:<port>]/<datasource>	<b>Default Port</b> 1583
	<b>JDBC Class</b> com.pervasive.jdbc.v2.Driver	<b>JDBC JAR File Name</b> N/A
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"><li>• Pentaho Data Integration</li><li>• Pentaho Report-Designer</li></ul>	
	<b>Comments</b> The data source is the ODBC DSN	

### PostgreSQL

Vendor Name	Details
Recommended Native Driver	
PostgreSQL Global Development Group	<b>Company URL</b> <a href="http://www.postgresql.org/">http://www.postgresql.org/</a>
	<b>Driver URL</b>

Vendor Name	Details	
	<a href="http://jdbc.postgresql.org/">http://jdbc.postgresql.org/</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:postgresql:// <server>[:<port>]/<databaseName>	<b>Default Port</b> 5342
	<b>JDBC Class</b> org.postgresql.Driver	<b>JDBC JAR File Name</b> postgresql-8.x-xxx.jdbc4.jar
	<b>Shipped with Pentaho Products</b> <ul style="list-style-type: none"> <li>• Pentaho Data Integration</li> <li>• Pentaho Report-Designer</li> </ul>	

## SAP DB

Vendor Name		Details	
Recommended Native Driver			
SAP DB	<b>Company URL</b> N/A		
	<b>Driver URL</b> <a href="http://www.sapdb.org/sap_db_jdbc.htm">http://www.sapdb.org/sap_db_jdbc.htm</a>		
	<b>JDBC URL Syntax by Type</b> Server—jdbc:sapdb://<server>/<database_name>		<b>Default Port</b> N/A
	<b>JDBC Class</b> com.sap.dbtech.jdbc.DriverSapDB		<b>JDBC JAR File Name</b> sapdbc-x.x.x.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration		
	<b>Comments</b> FREE Enterprise Open Source Database		

## SQLite

Vendor Name		Details	
Recommended Native Driver			
Xerial	<b>Company URL</b> N/A		
	<b>Driver URL</b> <a href="http://www.xerial.org/trac/Xerial/wiki/SQLiteJDBC">http://www.xerial.org/trac/Xerial/wiki/SQLiteJDBC</a>		
	<b>JDBC URL Syntax by Type</b> Server—jdbc:sqlite:<filename.db>		<b>Default Port</b> N/A

Vendor Name	Details	
	<b>JDBC Class</b> org.sqlite.JDBC	<b>JDBC JAR File Name</b> sqlite-jdbc-x.x.x.jar
	<b>Shipped with Pentaho Products</b> Pentaho Data Integration	

## SQL Server

Vendor Name	Details	
Recommended Native Driver		
Microsoft	<b>Company URL</b> <a href="http://www.microsoft.com">http://www.microsoft.com</a>	
	<b>Driver URL</b> <a href="http://msdn.microsoft.com/en-us/sqlserver/aa937724.aspx">http://msdn.microsoft.com/en-us/sqlserver/aa937724.aspx</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:sqlserver:// <server>[:<port>];DatabaseName= <databaseName>	<b>Default Port</b> 1433
	<b>JDBC Class</b> com.microsoft.sqlserver.jdbc. SQLServerDriver	<b>JDBC JAR File Name</b> sqljdbc4.jar
	<b>Comments</b> The open source jtds driver also works with MSSQL	

## Sybase ASE

Vendor Name		Details	
Recommended Native Driver			
SAP	<b>Company URL</b> <a href="http://www.sybase.com">http://www.sybase.com</a>		
	<b>Driver URL</b> <a href="http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect">http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect</a>		
	<b>JDBC URL Syntax by Type</b> Server— jdbc:sybase:Tds:<server>[:<port>]/<databaseName>	<b>Default Port</b> 5000	
	<b>JDBC Class</b> com.sybase.jdbc4.jdbc.SybDriver	<b>JDBC JAR File Name</b> N/A	
	<b>Comments</b> The open source jTDS driver works with Sybase as well		

## Sybase SQL Anywhere

Vendor Name		Details	
Recommended Native Driver			
SAP	<b>Company URL</b> <a href="http://www.sybase.com">http://www.sybase.com</a>		
	<b>Driver URL</b> <a href="http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect">http://www.sybase.com/products/allproductsa-z/softwaredeveloperkit/jconnect</a>		
	<b>JDBC URL Syntax by Type</b> Server— jdbc:sybase:Tds:<server>[:<port>]/<databaseName>	<b>Default Port</b> 2638	
	<b>JDBC Class</b> com.sybase.jdbc4.jdbc.SybDriver	<b>JDBC JAR File Name</b> N/A	
	<b>Comments</b> This open source jTDS driver works with Sybase as well		

## SmallSQL

Vendor Name		Details	
Recommended Native Driver			
SmallSQL	<b>Company URL</b> <a href="http://www.smallsql.de/">http://www.smallsql.de/</a>		
	<b>Driver URL</b> <a href="http://www.smallsql.de/download.html">http://www.smallsql.de/download.html</a>		
	<b>JDBC URL Syntax by Type</b> Embedded— jdbc:smallsql:databaseName[?URL attribute=value[URLattribute=value] ...]	<b>Default Port</b> N/A	
	<b>JDBC Class</b> smallsql.database.SSDriver	<b>JDBC JAR File Name</b> smallsql.jar	
	<b>Comments</b> Java desktop SQL database engine		

## Teradata

Vendor Name		Details	
Recommended Native Driver			
Teradata		Company URL <a href="http://www.teradata.com">http://www.teradata.com</a>	

Vendor Name	Details	
	<b>Driver URL</b> <a href="http://downloads.teradata.com/download/connectivity/jdbc-driver">http://downloads.teradata.com/download/connectivity/jdbc-driver</a>	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:teradata://<dbshost>[<URL attribute>[:<URL attribute>]...]	<b>Default Port</b> N/A
	<b>JDBC Class</b> com.teradata.jdbc.TeraDriver	<b>JDBC JAR File Name</b> terajdbc4.jar

## Vertica

Vendor Name	Details	
Recommended Native Driver		
HP	<b>Company URL</b> <a href="http://www.vertica.com">http://www.vertica.com</a>	
	<b>Driver URL</b> TBD	
	<b>JDBC URL Syntax by Type</b> Server—jdbc:vertica:// <server>[:<port>]/<databaseName>	<b>Default Port</b> 5433
	<b>JDBC Class</b> com.vertica.Driver	<b>JDBC JAR File Name</b> N/A