

Review Supported Technologies



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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

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# Contents

Components Reference	_
JDBC Drivers Reference	Ç

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> <li>Apple Macintosh Pro Quad-Core or Macintosh Mini Quad-Core</li> <li>Intel EM64T or AMD64 Dual-Core</li> <li>RAM: 8 GB with 4 GB dedicated to Pentaho servers</li> <li>Disk Space: 20 GB free after installation</li> </ul>	<ul> <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 Tentative Daniel checking on R1 support</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
<ul><li>Processors:</li><li>Apple Macintosh Dual-Core</li><li>Intel EM64T or AMD64 Dual-Core</li></ul>	<ul> <li>Apple Macintosh OS 10.7 &amp; 10.8</li> <li>Microsoft Windows 7</li> <li>Ubuntu Desktop 12.x</li> </ul>
<b>RAM:</b> 2 GB RAM for most of the design tools, PDI requires 2 GB dedicated	
Disk Space: 2 GB free after installation	
Minimum Screen Size: 1280 x 960	

#### **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
Processors:	Apple Macintosh OS X Server 10.7 & 10.8     CentOS Linux 5 & 6

Hardware—64 bit	Operating System—64 bit
Apple Macintosh Pro Quad-Core or Macintosh Mini Quad-Core	Microsoft Windows 2008 Server R2 Tentative Daniel checkinhg on R1
Intel EM64T or AMD64 Dual-Core	Microsoft Windows 7
RAM: 8 GB with 4 GB dedicated to Pentaho servers  Disk Space: 20 GB free after installation	<ul> <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	• JBoss 7.x (EAP 6.x.x)
Pentaho Data Integration Server	Tomcat 6.0.x

#### **Solution Database Repositories**

Pentaho software stores processing artifacts in these solution database repositories.

Pentaho Software	Database Repository
Pentaho Business Analysis Server	MySQL 5.x
Pentaho Data Integration Server	<ul> <li>Oracle 10g/11i</li> <li>PostgreSQL 8.4 &amp; 9.1.x*</li> </ul>

<sup>\*</sup>Default installed solution database

#### **Data Sources**

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

Pentaho Software	Data Source
Pentaho Reporting	• JDBC 3**
	• ODBC
	• OLAP4J
	• XML
	Pentaho Analysis
	Pentaho Data Integration
	Pentaho Metadata
	Scriptable
Pentaho Business Analysis Server, Action Sequences	Relational (JDBC)
	Hibernate
	Javascript
	Metadata (MQL)
	Mondrian (MDX)
	XML (XQuery)
	Security User/Role List Provider
	Data Integration Steps (PDI)
	Other Action Sequences
	Web Services
	• XMLA
Pentaho Data Integration	• JDBC 3**

Pentaho Software	Data Source
	<ul> <li>XML</li> <li>CSV</li> <li>Microsoft Excel</li> <li>Pentaho Analysis</li> <li>Hadoop distrobutions ****</li> <li>Cloudera</li> <li>CDH4</li> <li>Hortonworks</li> <li>MapR</li> <li>Cassandra distrobutions</li> <li>Apache</li> <li>DataStax</li> </ul>

<sup>\*\*</sup>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
Pentaho Analysis	Check on Impala with Doug Moran?
	Access
	Amazon Redshift
	• DB2
	Derby
	Firebird
	Greenplum
	Hsqldb
	Infobright
	Informix
	• Ingres
	Interbase
	LucidDb
	MicrosoftSqlServer
	MonetDB
	MySql
	Neoview
	Netezza
	Oracle
	PostgreSQL
	SqlStream
	Sybase
	Teradata
	Vectorwise
	Vertica
	Other SQL-92 compliant****

<sup>\*\*\*</sup>From one of these distributions: HBase 0.90.5 and Hive 0.7.1

Pentaho Software	Data Source
Pentaho Software  Pentaho Metadata	<ul> <li>Amazon Redshift</li> <li>DB2</li> <li>Firebird</li> <li>H2</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>PostgresSQL</li> <li>Sybase</li> <li>Vertica</li> </ul>
Poutoko Poto Intorretion	Other SQL-92 compliant****
Pentaho Data Integration	<ul> <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>Hypersonic</li> <li>IBM DB2</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>

<sup>\*\*\*\*</sup>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> <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> <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>

<sup>\*\*\*\*\*</sup>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.

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
Apache Derby	IBM	http://db.apache.org/derby/ derby_downloads.html
Cache <sup>+</sup>	InterSystems	http://www.cachemonitor.de/ intersystems-documentation/cache- jdbc-driver
CUBRID	CUBRID	http://www.cubrid.org/? mid=downloadsitem=jdbc_driver
Daffodil DB	Daffodil Software	http://sourceforge.net/projects/ daffodildb/
DB2 AS/400	IBM	http://www-03.ibm.com/systems/i/ software/toolbox/
DB2 Universal Database	IBM	http://www-306.ibm.com/software/ data/db2/java
Firebird	Firebird Foundation	http://www.firebirdsql.org/en/jdbc- driver/
FrontBase	FrontBase	http://www.frontbase.com/cgi-bin/ WebObjects/FBWebSite
Greenplum	EMC2	http://jdbc.postgresql.org/ download.html
H2 Database	H2	http://www.h2database.com
Hive	Apache	http://hive.apache.org/
HSQLDB	HyperSQL	http://sourceforge.net/projects/hsqldb/
Informix	IBM	http://www-01.ibm.com/software/
Ingres	Actian	http://esd.actian.com/product/drivers/ JDBC/java
InterBase	Embarcadero	http://edn.embarcadero.com
jTDS Free MS Sybase	jTDS	http://jtds.sourceforge.net/
LucidDB	DynamoDB	http://www.dynamobi.com/c/ downloads/stable/
MaxDB	SAP	http://maxdb.sap.com
Mckoi	Mckoi SQL Database	http://www.mckoi.com/ originalmckoisql/index.html
Mimer	Mimer Information Technology	http://www.mimer.com
MonetDB	MonetDB	http://www.monetdb.org/
MySQL	Oracle	http://dev.mysql.com/downloads/ connector/j/
Neoview	HP	https://h20392.www2.hp.com/portal/ swdepot/displayProductInfo.do? productNumber=NEO10

Database	Vendor	URL
Netezza	IBM	http://www.netezza.com
OpenBase SQL	OpenBase International	http://www.openbase.com/index.php/ products/downloads
Oracle	Oracle	http://www.oracle.com/technetwork/ database/features/jdbc/index.html
Pervasive	Pervasive	http://www.pervasivedb.com/ download/Pages/PDBDownloads. aspx
PostgreSQL	PostgreSQL Global Development Group	http://jdbc.postgresql.org/
SAP DB	SAP DB	http://www.sapdb.org/ sap_db_jdbc.htm
SQLite	Xerial	http://www.xerial.org/trac/Xerial/wiki/ SQLiteJDBC
SQL Server	Microsoft	http://msdn.microsoft.com/en-us/ sqlserver/aa937724.aspx
Sybase ASE	SAP	http://www.sybase.com/products/ allproductsa-z/softwaredeveloperkit/ jconnect
Sybase SQL Anywhere	SAP	http://www.sybase.com/products/ allproductsa-z/softwaredeveloperkit/ jconnect
SmallSQL	SmallSQL	http://www.smallsql.de/download.html
Teradata	Teradata	http://downloads.teradata.com/ download/connectivity/jdbc-driver
Vertica	HP	http://www.vertica.com

## **Apache Derby**

Vendor Name	Details	
Recommended Native Dr	iver	
IBM	Company URL http://www.ibm.com	
	Driver URL  http://db.apache.org/derby/derby_downloads.html	
	JDBC URL Syntax by Type	Default Port
	Server—jdbc:derby:// <server>[:<port>]/<databasename>[;<url attribute="">=&gt;value&gt;]</url></databasename></port></server>	1527
	Embedded—jdbc:derby: <databasename>[;create=true]</databasename>	
	JDBC Class org.apache.derby.jdbc.ClientDriver org.apache.derby.jdbc.EmbeddedDriver	JDBC JAR File Name derby.jar
	Shipped with Pentaho Products	

Vendor Name	Details
	Pentaho Data Integration
	Comments
	Open source database

## Caché

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

#### **CUBRID**

Vendor Name	Details	
Recommended Native Driver		
CUBRID	Company URL http://www.cubrid.org	
	Driver URL http://www.cubrid.org/?mid=download	ads&item=jdbc_driver
	JDBC URL Syntax by Type	Default Port
	Server— jdbc:cubrid: <server>:<port>:<database [?<url="" attribute="">=<value>[&amp;<url attribute="">=<value>] ]</value></url></value></database></port></server>	33000 Name>: <username>:<password> :</password></username>
	JDBC Class	JDBC JAR File Name
	cubrid.jdbc.driver.CUBRIDDriver	N/A
	Comments Open source database highly optimized	d for Web applications.

#### **Daffodil DB**

Vendor Name	Details
Recommended Native Driver	

Vendor Name	Det	ails
Daffodil Software	Company URL  http://db.daffodilsw.com  Driver URL  http://sourceforge.net/projects/daffodildb/	
	JDBC URL Syntax by Type  Server—jdbc:daffodilDB:// <server>[:<port>]/<databasename>  Embedded— jdbc:daffodilDB_embedded:<databasen< td=""><td>Default Port 3456 N/A Name&gt;</td></databasen<></databasename></port></server>	Default Port 3456 N/A Name>
	JDBC Class in.co.daffodil.db.rmi.RmiDaffodilDBDriv in.co.daffodil.db.jdbc.DaffodilDBDriver	JDBC JAR File Name  DaffodilDB_client.jar  DaffodilDB_Embedded.jar,  DaffodilDB_Common.jar
	Comments Open source database	

#### **DB2 AS/400**

Vendor Name	Details	
Recommended Native Driver		
IBM	Company URL http://www.ibm.com	
	Driver URL  http://www-03.ibm.com/systems/i/software/toolbox/	
	JDBC URL Syntax by Type Server—jdbc:as400:// <server>naming=sql;errors=full</server>	Default Port N/A
	JDBC Class com.ibm.as400.access.AS400JDBCDrivet00.jar  Shipped with Pentaho Products Pentaho Data Integration	

## **DB2 Universal Database**

Vendor Name	Details	
Recommended Native Driver		
IBM	Company URL	
	http://www.ibm.com	

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

#### Firebird

Vendor Name	D	etails
Recommended Native Driver		
Firebird Foundation	Company URL	
	http://www.firebirdsql.org	
	Driver URL	
	http://www.firebirdsql.org/en/jdbc-driv	er/
	JDBC URL Syntax by Type	Default Port
	Server—jdbc:firebirdsql: <server>[/</server>	3050
	<pre><port>]:/<database-file></database-file></port></pre>	3050
	(JDBC Type 4, official format)	3050
	Server—jdbc:firebirdsql:// <server>[:<port>]/<database-file></database-file></port></server>	3050
		N/A
	(JDBC Type 4, compatibility format)	
	Server—jdbc:firebirdsql:native// <server>[/<port>]:/<database-file></database-file></port></server>	
	(JDBC Type 2, compatibility format)	
	Server—jdbc:firebirdsql:native:// <server>[:<port>]/<database-file></database-file></port></server>	
	JDBC Type 2, compatibility format. Requires libraries)	
	Embedded— jdbc:firebirdsql:embedded:/ <local- database-file=""></local->	
	(JDBC Type 2, compatibility format. Requires libraries)	
	JDBC Class	JDBC JAR File Name
	org.firebirdsql.jdbc.FBDriver	jaybird-full-xxx.jar
	Shipped with Pentaho Products	

#### **FrontBase**

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

## Greenplum

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

## **H2 Database**

Vendor Name	Details
Recommended Native Driver	
H2	Company URL http://www.h2database.com
	Driver URL

Vendor Name	Details	
	http://www.h2database.com	
	JDBC URL Syntax by Type	Default Port
	Server—jdbc:h2:tcp://server[:port]/file-	9092
	path Embedded—jdbc:h2:file-name	N/A
	·	
	JDBC Class	JDBC JAR File Name
	jdbc:h2:tcp://server[:port]/file-path	h2-x.x.xxx.jar
	org.h2.Driver	
	Shipped with Pentaho Products	
	Pentaho Business Analysis Server	
	Pentaho Data Integration     Deptaho Metadata Editor	
	Pentaho Metadata-Editor	
	Pentaho Report-Designer	
	Comments	
	Open source Java SQL database	

## Hive

Vendor Name	Det	ails
Recommended Native Driver		
Apache	Company URL  http://hive.apache.org/  Driver URL  N/A	
	JDBC URL Syntax by Type	Default Port
	Server—jdbc:hive:// <server>[:<port>]/ default</port></server>	10000
	JDBC Class	JDBC JAR File Name
	org.apache.hadoop.hive.jdbc.HiveDrive	rhive-jdbc-x.x.x-pentaho-y.y.y.jar
		Example: hive-jdbc-0.7.0-pentaho-1.0.1.jar*
	Shipped with Pentaho Products	,
	<ul><li>Pentaho Business Analysis Server</li><li>Pentaho Data Integration</li><li>Pentaho Metadata-Editor</li></ul>	
	Pentaho Report-Designer	
	Comments	
	Data warehouse infrastructure that prodemand querying	vides data summarization and on-

Vendor Name	Details
	*x.x.x is the Hive version, y.y.y is the Pentaho version. Pentaho has enhanced the standard Hive JDBC driver

#### **HSQLDB**

Vendor Name	De	tails
Recommended Native Driver		
HyperSQL	Company URL  http://www.hsqldb.org  Driver URL  http://sourceforge.net/projects/hsqldb/	
	JDBC URL Syntax by Type  Server—jdbc:hsqldb:hsql:// <server>[:<port>]/<databasename>  Embedded Memory— jdbc:hsqldb:mem:<databasename>  Embedded File — jdbc:hsqldb:file:<database-file></database-file></databasename></databasename></port></server>	Default Port 9001 N/A N/A
	JDBC Class org.hsqldb.jdbcDriver	JDBC JAR File Name hsqldb.jar
	<ul> <li>Shipped with Pentaho Products</li> <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>	

#### Informix

Vendor Name	Details		
Recommended Native Driver			
IBM	Company URL  http://www.ibm.com		
	Driver URL	Driver URL	
	=		
	JDBC URL Syntax by Type Default Port		
	Server—jdbc:informix- sqli:// <server>[:<port>]/ <databasename>:informixserver=<dbservername></dbservername></databasename></port></server>		
	JDBC Class com.informix.jdbc.lfxDriver	JDBC JAR File Name ifxjdbc.jar	

Vendor Name	Details
	Shipped with Pentaho Products
	Pentaho Data Integration

## Ingres

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

#### InterBase

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

## jTDS Free MS SQL Sybase

Vendor Name	Details
Recommended Native Driver	

#### LucidDB

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

#### **MaxDB**

Vendor Name	Det	ails
Recommended Native Driver		
SAP	Company URL http://www.sap.com	
	Driver URL http://maxdb.sap.com	
	JDBC URL Syntax by Type Server—jdbc:sapdb:// <server>[:<port>]/<databasename></databasename></port></server>	Default Port 7210
	JDBC Class com.sap.dbtech.jdbc.DriverSapDB	JDBC JAR File Name sapdbc.jar
	Comments  Database management system develo	ped and supported by SAP AG

#### Mckoi SQL Database

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

#### Mimer

Vendor Name	Details
Recommended Native Driver	
Mimer Information Technology	Company URL http://www.mimer.com
	Driver URL N/A

Vendor Name	Details	
	JDBC URL Syntax by Type  Server—jdbc:mimer: <protocol>:// <server>[:<port>]/<database></database></port></server></protocol>	<b>Default Port</b> 1360
	JDBC Class com.mimer.jdbc.Driver	JDBC JAR File Name mimer.jar

#### **MonetDB**

Vendor Name	Det	ails
Recommended Native Driver		
MonetDB	Company URL  http://www.monetdb.org  Driver URL  N/A	
	JDBC URL Syntax by Type Server—jdbc:monetdb:// <server>[:<port>]/<database></database></port></server>	Default Port 50000
	JDBC Class nl.cwi.monetdb.jdbc.MonetDriver	JDBC JAR File Name monetdb-jdbc-x.x.jar
	Shipped with Pentaho Products Pentaho Data Integration	
	Comments An open source database system	

#### MY SQL

Vendor Name	1	Details	
Recommended Native Driver			
Oracle	Company URL  http://www.mysql.com  Driver URL  http://dev.mysql.com/downloads/connector/j/		
	JDBC URL Syntax by Type  Server—jdbc:mysql:// <hostname>[,<failoverhost>] [:<port>] /<dbname>[?<url attribute="">=<value>[&amp;<url attribute="">=<value>] ]</value></url></value></url></dbname></port></failoverhost></hostname>	Default Port 3306	
	JDBC Class	JDBC JAR File Name	

Vendor Name	Details	
	com.mysql.jdbc.Driver (official class name) org.gjt.mm.mysql.Driver (older class name)	mysql-connector-java-5.x.xx-bin.jar
	Shipped with Pentaho Product  Pentaho Enterprise-Console Pentaho Business Analysis Server	
	<ul><li>Pentaho Aggregation-Designer</li><li>Pentaho Metadata-Editor</li><li>Pentaho Report-Designer</li></ul>	

#### Neoview

Vendor Name	Det	ails
Recommended Native Driver		
HP	Company URL  http://www.hp.com  Driver URL  https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do? productNumber=NEO10	
	JDBC URL Syntax by Type  Server—jdbc:hpt4jdbc:// <system>[:<port>]/[:][<url attribute="">= <value>[;<url attribute="">=<value>]</value></url></value></url></port></system>	Default Port 18650
	JDBC Class com.hp.t4jdbc.HPT4Driver	JDBC JAR File Name N/A

#### Netezza

Vendor Name	Det	tails
Recommended Native Driver		
ІВМ	Company URL http://www.netezza.com	
	Driver URL N/A	
	JDBC URL Syntax by Type jdbc:netezza:// <server>[:<port>]/ <database></database></port></server>	Default Port 5480
	JDBC Class org.netezza.Driver	JDBC JAR File Name N/A

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

#### Oracle

Vendor Name	Det	ails
Recommended Native Driver		
Oracle	Company URL	
	http://www.oracle.com	
	Driver URL	
	http://www.oracle.com/technetwork/data	abase/features/jdbc/index.html
	JDBC URL Syntax by Type Default Port	
	Thin Server— jdbc:oracle:thin:@ <server>[:<port>]:<si< td=""><td>1521 d&gt;</td></si<></port></server>	1521 d>
	OCI Server —jdbc:oracle:oci:@ <server>[:<port>]:<sid></sid></port></server>	
	JDBC Class	JDBC JAR File Name
	oracle.jdbc.driver.OracleDriver	ojdbcx.jar, ora18n.jar
	oracle.jdbc.OracleDriver	
	Comments	
	The OCI server requires OCI libraries	

#### **Pervasive**

Vendor Name	Details	
Recommended Native Driver		
Pervasive	Company URL	
	http://www.pervasivedb.com/Pages/default.aspx	
	Driver URL	
	http://www.pervasivedb.com/download/Pages/PDBDownloads.aspx	

## **PostgreSQL**

Vendor Name	Det	ails
Recommended Native Driver		
PostgreSQL Global Development Group	Company URL http://www.postgresql.org/	
	Driver URL  http://jdbc.postgresql.org/	
	JDBC URL Syntax by Type  Server—jdbc:postgresql:// <server>[:<port>]/<databasename></databasename></port></server>	Default Port 5342
	JDBC Class org.postgresql.Driver	JDBC JAR File Name postgresql-8.x-xxx.jdbc4.jar
	<ul><li>Shipped with Pentaho Products</li><li>Pentaho Data Integration</li><li>Pentaho Report-Designer</li></ul>	

#### SAP DB

Vendor Name	Det	ails	
Recommended Native Driver	commended Native Driver		
SAP DB	Company URL N/A  Driver URL http://www.sapdb.org/sap_db_jdbc.htm		
	JDBC URL Syntax by Type Server—jdbc:sapdb:// <server>/ <database_name></database_name></server>	Default Port N/A	

Vendor Name	Details	
	JDBC Class com.sap.dbtech.jdbc.DriverSapDB	JDBC JAR File Name sapdbc-x.x.x.jar
	Shipped with Pentaho Products Pentaho Data Integration  Comments FREE Enterprise Open Source Database	

## **SQLite**

Vendor Name	Details	
Recommended Native Driver		
Xerial	Company URL N/A	
	Driver URL  http://www.xerial.org/trac/Xerial/wiki/SQLiteJDBC	
	JDBC URL Syntax by Type Server—jdbc:sqlite: <filename.db></filename.db>	Default Port N/A
	JDBC Class org.sqlite.JDBC	JDBC JAR File Name sqlite-jdbc-x.x.x.jar
	Shipped with Pentaho Products Pentaho Data Integration	

## **SQL Server**

Vendor Name	De	tails
Recommended Native Driver		
Microsoft	Company URL http://www.microsoft.com	
	Driver URL  http://msdn.microsoft.com/en-us/sqlserver/aa937724.aspx	
	JDBC URL Syntax by Type  Server—jdbc:sqlserver:// <server>[:<port>];DatabaseName=<databasename>  Default Port  1433  433</databasename></port></server>	
	JDBC Class com.microsoft.sqlserver.jdbc.SQLServ	JDBC JAR File Name estOptjolec4.jar
	Comments The open source jtds driver also works with MSSQL	

## Sybase ASE

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

# Sybase SQL Anywhere

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

## SmallSQL

Vendor Name	Details
Recommended Native Driver	
SmallSQL	Company URL http://www.smallsql.de/
	Driver URL

Vendor Name	Det	ails
	http://www.smallsql.de/download.html	
	JDBC URL Syntax by Type	Default Port
	Embedded— jdbc:smallsql:databaseName[?URL attribute=value[URLattribute=value]]	N/A
	JDBC Class	JDBC JAR File Name
	smallsql.database.SSDriver	smallsql.jar
	Comments	
	Java desktop SQL database engine	

#### Teradata

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

#### Vertica

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