

FAQ for HXTT Cobol Packages of type 4 JDBC Driver for Cobol FB VB data file

The most recent version of this document can be viewed at [here](#).

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General Questions

1. How to know the detailed version information of HXTT Cobol package?

1st way: "java com.hxtt.sql.cobol.CobolDriver" will print that information.

2nd way: check that MANIFEST.MF file in jar file.

2. Can I use it in an iSeries OS/400 IBM machine that has Java 1.4 running in it?

The HXTT Cobol packages can run on any platform with Java VM, which includes Microsoft Windows, Novell Netware, OS2, UNIX, and LINUX. It supports Personal Java, JDK1.0.X, JDK1.1.X, JDK1.2.X, JDK1.3.X, JDK1.4.X, JDK1.5.X, JDK1.6.X, JDK1.7.X, and JDK1.8.X. It supports JDBC1.2, JDBC2.0, JDBC3.0, JDBC4.0, JDBC4.1, and JDBC4.2 now.

3. What is difference between the HXTT Cobol Package, Embedded Package, and Remote Access Package? Can I get some sample code to use the HXTT Cobol?

The HXTT Cobol supports Embedded and Remote Access. HXTT Cobol Package includes a Database GUI manager. If you're accessing the local data, you can use the HXTT Cobol Package or Embedded Package. If you're accessing the remote data, you can use the HXTT Cobol Package or Remote Access Package. There is no any difference for your code to use anyone of three packages. Please download the demo package from [here](#).

4. What causes the 'No suitable driver' SQLException?

This error usually occurs during a call to `DriverManager.getConnection()`. The cause can be failing to load the appropriate JDBC driver before calling `getConnection()`, or specifying an invalid JDBC URL that isn't recognized by your JDBC driver. If you're using a trial version, you will get "No suitable driver" SQLException, and "Evaluation period over" after using about 30 days. The HXTT Cobol driver's name is `com.hxtt.sql.cobol.CobolDriver`, and its JDBC URL:

Embedded:

`jdbc:cobol:[//]/[DatabasePath][?prop1=value1[:prop2=value2]]` (You can omit that "://" characters sometimes)

For example:

`"jdbc:cobol:/"`

`"jdbc:cobol/c:/data"`

`"jdbc:cobol:///usr/data"` for unix or linux:

`"jdbc:cobol/./data"`

Access by Cobol Server: Skip it if you don't use TCP, RMI or JINI.

`jdbc:cobol://host:port/[DatabasePath]`

For example: `"jdbc:cobol://domain.com:3099/c:/data"` if one CobolServer is run on the 3099 port of domain.com

5. How to setup Cobol url on the Novell Server?

Cobol driver can run on Novell server. You can use directly access or CobolServer to visit your data on Novell server. If your Cobol files is at `sys:/java/yourdata`, the direct URL should be:

`jdbc:cobol:///sys:/java/yourdata`

or

`jdbc:cobol:///java/yourdata`

6. I got "java.io.IOException: Permission denied" sometimes for my SELECT query.

Please figure out what directory Java's java.io.tmpdir system property points to, and make sure that directory is writable by the user that runs your Java applications, otherwise you should set tmpdir property in Connection property to a writable directory. tmpdir property indicates whether set a temp directory, Default: the value of JVM's "java.io.tmpdir" property. If that value is incorrect, using the directory of JDBC url.

7. When I used jdbc:cobol:<DatabasePath>, the connection's schema was empty. "create catalog if not exists cobolfiles". What is Catalog?

Cobol's schema is always empty. You can use catalog to query subdirectory. Catalog means a directory, which contains some Cobol files.

8. Can HXTT Cobol support JDK 1.0.2?

Yeah. You need to download JDBC 1.22 from the Sun's JDBC download page and add JDBC1.22 into JDK 1.0.2. HXTT Cobol hasn't be tested on JDK1.0.X since we have not received such a complement request from our users. If you meet any problem, please let us know.

Applet Questions

1. I already configured the .java.policy for my applet, but I continue with problems of "access denied".

For instance, you're using "jdbc:cobol:/C:/test", and grant codeBase "file:/C:/test" in your policy file, but your applet is running from "D:\sample\CargaStatApplet.html". You should grant codeBase "file:/D:/sample", not "file:/c:/test".

2. http://localhost:8080/jdbcapplet.html, the applet started but returns a Classnotfound com.hxtt.sql.cobol.CobolDriver error in the gui list.

Please add a codebase tag. For instance, "<applet code="jdbcapplet.class" codebase="Cobol_Remote_Access_JDBC20.jar"></applet>". The Cobol_Remote_Access_JDBC20.jar should be at the same directory of jdbcapplet.html.

Remote Access Questions and Client/Server Mode Questions

1. Client/Server mode question: The data directory is not in the IBM machine where the Java program should run, but instead those Cobol files are in another machine with Windows operating system.

com.hxtt.sql.admin.Admin provides a GUI manger for [Cobol server](#). For instance, you wish to provide JDBC3.0 remote data access. Please use "java -cp yourdirectory/Cobol_JDBC30.jar com.hxtt.sql.admin.Admin" to start GUI manager, and add a url setting of "'jdbc:cobol://10.32.90.48:' + 8029 +'/' + databaseDirectory" on your host of 10.32.90.48(just an IP sample), then click Start button. Third, you can use 'String url = "jdbc:cobol://10.32.90.48:" + 8029 +'/' + databaseDirectory;' to visit your Cobol database from your IBM machine. If you're running that GUI manager on "yourNT.com" host to visit "c:/database" directory, you can use "jdbc:cobol://yourNT.com:8029/c:/database" on your web application. jdbc:cobol://yourNT.com:8029/c:/database? user=oneuser&password=onpassword can provide a simply user/password verification for client/server mode. If you wish to write a secure Cobol server for some sensitive information, embedded encrypt/decrypt functions can help you.

2. Remote access through map network drive question: How to remote access Cobol data without CobolServer?

You can share your remote directory which contains your data files, then map it to a local driver. For Windows: You can connect remote Cobol database by sharing the directory and map it to local drive. You should disable the OPLOCKS of your Samba/NT/2000 server. How to turn off opportunistic locking in windows on client and on server side? This is done by manipulating the following registry key:

For client side: oplocks.reg file

```
REGEDIT4
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MRXSmb\Parameters]
"OplocksDisabled"=dword:00000001
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Parameters]
"UseOpportunisticLocking"=dword:00000000
```

For server side: oplocksServer.reg

```
REGEDIT4
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters]
"EnableOplocks"=dword:00000000
```

You should put additional registry entry like e.g.

The following registry entries disable opportunistic locking and caching:

HKey_Local_Machine \ System \ CurrentControlSet \ Services \ LanmanServer \ Parameters \ EnableOpLocks must be set to 0.
HKey_Local_Machine \ System \ CurrentControlSet \ Services \ LanmanServer \ Parameters \ CachedOpenLimit must be set to 0.
HKey_Local_Machine \ System \ CurrentControlSet \ Services \ LanmanWorkStation \ Parameters \ UseOpportunisticLocking must be set to 0.
HKey_Local_Machine \ System \ CurrentControlSet \ Services \ LanmanWorkStation \ Parameters \ UtilizeNtCaching must be set to 0.

For Linux: You can use mounting. One user uses Samba to map NTFS partitions in Linux servers, and Cobol driver works normally like mapping any mount point in Linux.

For Novell: You can map NCP directory as driver or mount NCP directory.

3. Remote access through UNC path question: Can I setup only one datasource to access four servers for my Cold Fusion?

To access one unc path, you can use jdbc:cobol: \\PC17\c\$\values or jdbc:cobol: \\PC17\val.

To access four unc pathes in the same connection, you need to use a free JDBC url, "jdbc:cobol:/" or "jdbc:cobol:///". Then you can use some full UNC path names in SQL to visit your four servers where your Java VM has right to access.. For instance:

```
select * from \\amd2500\c$\cobolfiles\test;  
select * from "\\amd2500\d$\coboliles".test;  
select * from ".".test;
```

4. Remote access through http/https/ftp protocol question: How to let my program to fetch data daily from our web host?

You need to use [url database](#), which supports http protocol, https protocol, ftp protocol, and sftp protocol.

5. Remote access through SAMBA protocol question: How to let my servlet on Linux to access over 300 hundred shared folders that all are on Windows boxes

You need to use [SAMBA table](#), which needn't to map or mount driver.

6. I can't get the [com.hxtt.sql.admin.Admin](#) running for internet --> intranet

HXTT Cobol supports port mapping and NAT route. Let HXTT Cobol listening a port on the database server, and modify your route table or NAT table to map an external port to that internal port. You can use "start java -Djava.security.policy=policy com.hxtt.sql.admin.Admin" to start GUI manager. You should add a remote url, for instance, jdbc:cobol://localhost:8029/d:/dbffiles, and click Start button to start that server. Then on your internet client side, you can use jdbc:cobol://externalIP:8029/d:/dbffiles to access your intranet host. externalIP means an external IP or domain name address of your gateway or database server.

BTW, except for TCPServer protocol, HXTT Cobol can use also RMIServer protocol. For instance, you have used "start rmiregistry 1099 -J-Djava.security.policy=yourPolicyFile" to startup your rmi service. Then you can use jdbc:cobol://localhost:1099/d:/dbffiles?serverType=RMIServer to let HXTT Cobol bind remote service in registry. The key is use "java -Djava.security.policy=policy -Djava.rmi.server.hostname=externalIP com.hxtt.sql.admin.Admin RMISERVER 8029" to start your server. RMIServer protocol is slower much than the default TCPServer protocol.

7. I would like to start a server (TCP) from our application, instead of [DBAdmin](#). I need to be able to programmatically tell the application which profile to start.

Please read [Start/Stop Server Programmatically](#).

8. Is there a way to specify a file path in the url that will connect to a mapped drive in Windows 2000. ie drive \\gomer\pyle\db which is mapped to f drive on the server.

Cobol driver can work with mapped driver, and you should use "jdbc:cobol:/f:" to access your data.

Note: If you're using a database file through a UNC path or a mapped drive of Windows, there is a Windows Security restriction. If you run ColdFusion (Tomcat, or tanuki sw wrapper) as a service on Windows, it operates by default as System, and cannot access directories on a remote system or mapped drive; to resolve this issue, do not run ColdFusion (Tomcat, or tanuki sw wrapper) using the local system account.

9. When I click Start button to start a remote service, I get a security exception: access denied (java.net.SocketPermission 127.0.0.1:8029 connect,resolve)

You have to enable java.net.SocketPermission right in your policy file if you run a Cobol server. Please read <file:///yourdriver/jdk1.2/docs/guide/security/PolicyFiles.html> for more information about policy file. It is unnecessary to know the specific content of a policy file, since you can use policy tool to create and maintain your policy files. Please read <file:///yourdriver/jdk1.2/docs/tooldocs/win32/policytool.html> for policy tool.

10. How to start remote service as MS Windows service and Linux(Solaris) Daemon?

Please read [Run HXTT CobolServer as Windows Service or Linux\(Solaris\) Daemon](#).

11. How to start remote control when CobolServer is running as Windows service or Linux(Solaris) Daemon?

You can use "java com.hxtt.sql.admin.Admin TCPCLIENT [host:]port [remoteControlPassword]" to start your remote control.

SQL Questions

1. I need to use tables stored in a subdirectory.

table-name: [catalog.]tableName

For instance, you have many Cobol files on c:\data. You can use "jdbc:cobol:/c:/data" as JDBC url. Then you can use "select * from subdirectory1.table1" to visit table1 file at subdirectory1. For instance, "select tableAlias.* from "sales/2004/04".sale as tableAlias" can access sale table at "c:\data\sales\2004\04".

2. I can't use "select RIGHT from deldob"

RIGHT is a reserved SQL keyword. "variableName", [variableName] or {v 'variableName'} is used to quote those columns which use reserved keyword, so that you should use "RIGHT" or {v 'RIGHT'} to quote the RIGHT field, for instance, *select {v 'RIGHT'}, 'other' from states where "RIGHT"=32*. HXTT Cobol supports using DATE, TIME, TIMESTAMP, GROUP, ORDER, KEY, DESC, UPDATE directly in SQL, although they're reserved words too.

3. Can I get an example on how to do a query involving a boolean value. eg. " Select * from tableName where exported = true", where exported is a boolean column in a Cobol file.

Supports. You can use "select * from tableName where exported" too. All of NOT, AND, and OR operation are supported.

4. How to specify dates?

Please use SQL Escape Syntax, a date is specified in a JDBC SQL statement with the syntax {d 'yyyy-mm-dd'} where yyyy-mm-dd provides the year, month, and date, e.g. 1996-02-28. There are analogous escape clauses for TIME and TIMESTAMP type: {t 'hh:mm:ss'} and {ts 'yyyy-mm-dd hh:mm:ss.f...'} . The fractional seconds (.f...) portion of the TIMESTAMP can be omitted. For instance, {d '1999-11-01'} and {ts '3999-03-24 00:59:23.22222'}. You can use PreparedStatement.setDate to set date columns too.

5. How to handle date range selection, e.g. SELECT * FROM CALLS WHERE START >= '2001-01-01' AND END <= '2002-01-01'

Although the HXTT Cobol supports "SELECT * FROM CALLS WHERE START >= '2001-01-01' AND END <= '2002-01-01'", but that sql syntax is unadvisable. Please use SQL Escape Syntax, {d 'yyyy-mm-dd'} and {ts 'yyyy-mm-dd hh:mm:ss.f...'} , for Date and timestamp type according to JDBC standard. You can learn more about Escape Syntax at <file:///yourdriver/jdk1.2/docs/guide/jdbc/spec/jdbc-spec.frame11.html> . You should use "select * from calls where start>={d '2001-01-01'} and end <={d '2002-01-01'}".

6. Can {d '2999-11-21'}={ts '2999-11-21 23:22:20.3335'} and {t '23:22:20'}={ts '1999-01-01 23:22:20.333'}?

Supports.

7. I think this one is for use functions {fn abs(TEST.int1)}

You can use abs(TEST.int1) too. HXTT Cobol supports more than 230 functions.

8. Update table_name set (fieldname1=X, fieldname2=X2,) where primary_index='blah' throws a parse exception.

You should use "update table_name set fieldname1=X, fieldname2=X2, where primary_index='blah'".

9. How to delete all deleted records permanently?

"PACK TABLE [IF EXISTS] table_name" will pack database.

"TRUNCATE TABLE [IF EXISTS] table-name" will zap database.

Index Questions

1. How to rebuilding index in case of corrupted index?

REINDEX {ALL | indexFileName[,indexfileName2,...]} ON table-name

2. I receive 1 record back, however there should be 8 records returned. My SQL is "SELECT * FROM Schshift@brian WHERE PSCHED='0001092478'"

You should have a UNIQUE index restriction on your PSCHED column in your index file. You should use "CREATE INDEX PSCHED on Schshift (PSCHED)", not "CREATE INDEX PSCHED on Schshift (PSCHED UNIQUE)". Then you can get all ten records. Cobol driver will use index to speed up the query which contains some index expressions.

3. We tried to set a PRIMARY KEY constraint with: create unique index PROVA on PROVA (COD)

You should try "CREATE INDEX prova ON prova (cod PRIMARY KEY).

4. I have a table that lists an index using: STR(ClassLink,4,0)+STR(StuLink,5,0) as the column_name. I want to join it to another table that has an index that uses the same columns... What should the join statement look like in order to take advantage of the indexes?

For instance, you can use "select * from ACLS3295,AGRD3295 where STR(ACLS3295.ClassLink,4,0)+STR(ACLS3295.StuLink,5,0)='1234abcde' and STR(AGRD3295.ClassLink,4,0)+STR(AGRD3295.StuLink,5,0)='5678abcde'", or "select * from ACLS3295 as a,AGRD3295 as b where STR(a.ClassLink,4,0)+STR(a.StuLink,5,0)='1234abcde' and STR(b.ClassLink,4,0)+STR(b.StuLink,5,0)='5678abcde'".

Performance Questions

1. What is the most efficient method to insert records in a table, to use an updatable RecordSet or to use a PreparedStatement?

PreparedStatement is smally quicker than updatable RecordSet. An updatable RecordSet is quicker than PreparedStatement if you insert into more than 200 columns with constant values. It can only cope with constant values. PreparedStatement can cope with complicated expressions so that you can insert timestamp, function, ResultSet, and so on.

2. "select count(*) from table" are worked a long time for large tables.

You should use "select reccount() from table" to get the number of records. Count(*) sums always up all records except deleted row.

3. Are there any data row count, data volume, memory minimums, maximums imposed when using the HXTT Cobol?

No limitation. The HXTT Cobol supports to join query big databases with DISTINCT, GROUP BY, and ORDER BY.

4. > Is there a scenario possible where we store frequently accessed temporary data in memory-only tables (as a cache) and use these for query's*_mixed_*with real HXTT Cobol tables?

memory is a speical catalog name for memory-only database. Through _memory_ catalog, memory-only database is visible for all applications in the same JVM. For instance, in an embedded connection, you can use create table _memory_.abc (a char(10));insert into _memory_.abc values(333);select * from _memory_.abc, test where abc.a=test.b;drop table _memory_.abc; to do the same things.

Concurrence Questions

1. Does HXTT Cobol support multi-user access?

The HXTT Cobol supports multi-user access, record lock, and table lock.

2. Is there any way to lock/unlock record programatically.

We have provided a `_LockFlag_` virtual column as row lock flag. You can know it from [Set Record Lock Manually](#).

Internationalization Questions

1. Can the HXTT Cobol support Czech MS - DOS 895?

The HXTT Cobol supports all codepage, multilingual collation sequence, and unicode character set. Cp895(Czech MS - DOS 895), Cp620(Polish MS - DOS 620) and Mazovia are extra supported although JVM doesn't support those.

2. Do you have a solution for character translation to the right encoding?

The HXTT Cobol supports CharacterEncoding. Please use charSet property.

```
//Default: null
//You can find a Supported Encodings list of files:///yourdriver/jdk1.2/docs/guide/internat/encoding.doc.html
//Extra supports:
// Cp895 is supported by HXTT Cobol driver. //Czech MS - DOS 895
// Cp620 is supported by HXTT Cobol driver. //Polish MS - DOS 620
// Mazovia is supported by HXTT Cobol driver. //Polish
Properties properties=new Properties();
properties.setProperty("charSet","sv_SE");
Connection con = DriverManager.getConnection(url,properties);
```

3. While reading encrypted data in a Cobol file using u'r parser in java. The data retrieved is different from the data in the Cobol file, certain characters are read as ? marks.(the encryption is done using ASCII values).

You can use `ResultSet.getBytes(int columnIndex)`, not `ResultSet.getString(int columnIndex)` and `ResultSet.getObject(int columnIndex)`, to get your encrypted data, since your encrypted data is binary stream.

4. When they insert accented characters, it comes out different at the Java end. There seem to be some character set conversion problems. Is there a way to solve that?

You can use `ResultSet.getBytes()` and `ResultSet.setBytes()` to avoid CharacterEncoding.

Interoperability Questions

1. How to set up HXTT Cobol with Tomcat4.1 as PoolableConnection?

This sample shows three PoolableConnections ways through Database Connection Pool (DBCP) Configurations and JNDI Resources(You should read [JNDI Datasource HOW-TO](#) and [JNDI Resources HOW-TO](#) also.):

In server.xml:

```
<Context path="" docBase="ROOT" debug="5" reloadable="true" crossContext="true">
  <Resource name="jdbc/testcobolPool1" auth="Container" type="javax.sql.DataSource">
    <ResourceParams name="jdbc/testCobolPool1">
      <parameter>
        <name>factory</name>
        <value>org.apache.commons.dbcp.BasicDataSourceFactory</value>
      </parameter>
      <parameter>
        <name>maxActive</name>
        <value>50</value>
      </parameter>
      <parameter>
        <name>maxIdle</name>
        <value>10</value>
      </parameter>
      <parameter>
        <name>maxWait</name>
        <value>10000</value>
      </parameter>
      <parameter>
        <name>username</name>
        <value></value>
      </parameter>
      <parameter>
        <name>password</name>
        <value></value>
      </parameter>
    </ResourceParams>
  </Resource>
</Context>
```

```

    </parameter>
    <parameter>
      <name>driverClassName</name>
      <value>com.hxtt.sql.cobol.CobolDriver</value>
    </parameter>
    <parameter>
      <name>url</name>
      <value>jdbc:cobol:///d:/cobolfiles</value>
    </parameter>
  </ResourceParams>
</Resource name="jdbc/testCobolPool2" auth="Container" type="com.hxtt.sql.HxttConnectionPoolDataSource"/>
  <ResourceParams name="jdbc/testCobolPool2">
    <parameter>
      <name>factory</name>
      <value>org.apache.naming.factory.BeanFactory</value>
    </parameter>
    <parameter>
      <name>url</name>
      <value>jdbc:cobol:///d:/cobolfiles</value>
    </parameter>
    <parameter><name>username</name><value></value></parameter>
    <parameter><name>password</name><value></value></parameter>
    <parameter><name>host</name><value></value></parameter>
    <parameter><name>port</name><value>8029</value></parameter>
  </ResourceParams>
</Resource name="jdbc/testCobolPool3" auth="Container" type="com.hxtt.sql.HxttConnectionPoolDataSource"/>
  <ResourceParams name="jdbc/testCobolPool3">
    <parameter>
      <name>factory</name>
      <value>com.hxtt.sql.HxttObjectFactory</value>
    </parameter>
    <parameter>
      <name>url</name>
      <value>jdbc:cobol:///d:/cobolfiles</value>
    </parameter>
    <parameter><name>username</name><value></value></parameter>
    <parameter><name>password</name><value></value></parameter>
    <parameter><name>host</name><value></value></parameter>
    <parameter><name>port</name><value>8029</value></parameter>
  </ResourceParams>
</Context>

```

Then you can use the below code to test those PoolableConnections:

```

Context initContext = new InitialContext();
Context envContext = (Context)initContext.lookup("java:/comp/env");

DataSource ds1 = (DataSource)envContext.lookup("jdbc/testCobolPool1");
Connection conn1 = ds1.getConnection();
out.println("testCobolPool1 OK:<br/>");
Statement stmt1 = conn1.createStatement();
ResultSet rs1 = stmt1.executeQuery("select * from test");
if(rs1.next())
  out.println(rs1.getString(1)+":<br/>");
rs1.close();
stmt1.close();
conn1.close();

DataSource ds2 = (DataSource)envContext.lookup("jdbc/testCobolPool2");
Connection conn2 = ds2.getConnection();
out.println("testCobolPool2 OK:<br/>");
Statement stmt2 = conn2.createStatement();
ResultSet rs2 = stmt2.executeQuery("select * from test");
if(rs2.next())
  out.println(rs2.getString(1)+":<br/>");
rs2.close();
stmt2.close();
conn2.close();

DataSource ds3 = (DataSource)envContext.lookup("jdbc/testCobolPool3");
Connection conn3 = ds3.getConnection();
out.println("testCobolPool3 OK:<br/>");
Statement stmt3 = conn3.createStatement();
ResultSet rs3 = stmt3.executeQuery("select * from test");

```

```

if(rs3.next())
    out.println(rs3.getString(1)+":<br/>");
rs3.close();
stmt3.close();
conn3.close();

```

If you use `org.apache.commons.dbcp.BasicDataSource`, but get "Cannot create PoolableConnectionFactory" Error, you should check your `commons-pool-1.x.jar` and `commons-dbcp-1.*.jar` file in `$TOMCAT/common/lib` directory to see whether two files have the same version. DBCP v1.2 requires Pool v1.2 so that you should update Pool v1.1 from the tomcat website.

If you wish to add more Connection property, you should use `connectionProperties`, for instance:

```

<parameter>
<name>connectionProperties</name>
<value>charSet=Cp737</value>
</parameter>

```

2. How to set up HXTT Cobol with vqServer 1.9.55 as web server?

The key is to use an absolute path as Java libraries' location, and restart vqServer after modified Java libraries. For instance, your vqServer is installed at `C:\vqServer\`.

1. Please use `http://yourhost:9090/` to visit your administration server.
2. Click on Java libraries in the vqServer control centre menu (`http://yourhost:9090/admin?action=libraries&serial=14`)
- 3 Click New library (`http://yourhost:9090/admin?lib=New_library&action=edit`)
4. Enter `C:\vqServer\classes\Cobol_JDBC20.jar` as location value, Cobol Driver as Description value, then click OK button.
5. Please copy `Cobol_JDBC20.jar` into `C:\vqServer\classes` directory.
6. Please copy `ex01.class` into `C:\vqServer\servlets\servlets`
7. Stop and restart vqServer
8. Please use `http://yourhost/servlet/yourServlets` to get your result.

3. How to set up HXTT Cobol with Coldfusion MX 6.1 Application Server?

For instance, your Coldfusion MX is installed at `C:\CFusionMX\`, and wish to use `Cobol_JDBC30.jar`.

1. Please copy `Cobol_JDBC30.jar` into `C:/CFusionMX/wwwroot/WEB-INF/classes/`.
2. Use `http://yourhost:8500/CFIDE/administrator/index.cfm` to enter the CFMX Administrator.
3. Go to the "Java and JVM" of Server Settings, `http://yourhost:8500/CFIDE/administrator/settings/jvm.cfm` page, and enter the full path, `C:/CFusionMX/wwwroot/WEB-INF/classes/Cobol_JDBC30.jar`, in the Class Path. Then, click "Submit Changes".
4. Restart the CFMX Service.
5. Please go back to the administrator page, and go to the "Data Sources" of Data & Services, `http://yourhost:8500/CFIDE/administrator/datasources/index.cfm` page, and enter the name for the new datasource, for instance "CobolTest", and select "Other" for the driver. Then Click "Add".
6. Enter the datasource information. JDBC URL is always in the format `jdbc:cobol://[host:port]/[DatabasePath]`, for instance `jdbc:cobol:/c:/data`. You can set more connection properties in your JDBC URL, for instance: `jdbc:cobol:/c:/data?delayedClose=15;maxCacheSize=6144;lockTimeout=2000;` . Driver class is always `com.hxtt.sql.cobol.CobolDriver`. Driver name is used to identify the driver in the datasources view, and you can use Cobol. Username and password are not required. They can also be specified in the `cfquery` tag (but datasource verification will fail if you don't enter them). Description is not required.
7. Lastly, please press "Submit" to finalize the entered data.
8. You can find `edit.cfm` and `edit_action.cfm` sample in demo package.

4. HXTT Cobol with If you run ColdFusion (Tomcat, or alexandria sw and tanuki sw wrapper) on Windows 2000 and Windows XP Pro does not work on mapped drives.

Note: If you're using a database file through a UNC path or a mapped drive of Windows, there is a Windows Security restriction. If you run ColdFusion (Tomcat, or tanuki sw wrapper) as a service on Windows, it operates by default as System, and cannot access directories on a remote system or mapped drive; to resolve this issue, do not run ColdFusion (Tomcat, or tanuki sw wrapper) using the local system account.

The service(For instance, ColdFusion MX Application Server, ColdFusion MX 7 Application Server, or Apache Tomcat) built by ColdFusion (Tomcat, or tanuki sw wrapper) can not access the share directory at other machine by default. But you can do as follows to solve this problem:

1. Right click the service built by ColdFusion (Tomcat, or tanuki sw wrapper) in service manager, and click the property menu.
2. On the open window,select the login tab, click this account radio box, and click the browse button.
3. Select the administrator account(it seems that you should select the administrator account), input the correct password in the password textbox and confirm password textbox.
4. Restart this service, you can find this service can access the share directory at other machine.

5. How to resolve 'DataSet has no unique row identifiers.' issue in JBuilder's QueryDataSet?

You can use `_rowid_`, a virtual column to avoid that issue, For instance:

```
//...
queryDataSet = new QueryDataSet();
//...
    queryDataSet.setMetaDataUpdate(MetaDataUpdate.ALL-MetaDataUpdate.ROWID-MetaDataUpdate.TABLENAME);

queryDataSet.setQuery(new QueryDescriptor(database, "select _rowid_,* from test", null, true,
    Load.ALL));
queryDataSet.open();

queryDataSet.setTableName("test");
queryDataSet.setRowId("_rowid_", true);
//...
```

6. How to set HXTT Cobol with WebSphere Application Server?

You can download a pdf guide from [here](#).

7. How to set HXTT Cobol with Hibernate?

You should download support package and sample from [here](#).

8. How to set HXTT Cobol Data Source with Oracle Application Server 10G?

You should read guide at [Oracle Application Server 10G\(v10.1.3\)](#) and [Oracle Application Server 10G\(v10.1.2.02\)](#).

9. How to set HXTT Cobol Data Source with JBoss AS 7.0.2?

After downloading HXTT Cobol driver jar file. just move the HXTT Cobol driver jar file into Jboss 7 installation directory under standalone/deployments (jboss-as-web-7.0.2.Final/standalone/deployments).

Restart your jboss server

Then go to the url and type `http://localhost:8080/`

click Administration console.

In Jboss Administration console you can press Add button of Datasource Configurations. step 1/3 Datasource Attributes: enter datasource name(testcobol) and jndi name(testcobol) then click Next button. step 2/3 JDBC Driver: select HXTT Cobol driver jar file. click Next Nutton. Step 3 Connection Settings: enter connection URL (jdbc:cobol:///data) , Username(null) and Password(null). finally click Done button.

10. How to set HXTT Cobol Data Source with Railo 3.3.1 Express?

After downloading HXTT Cobol driver jar file. just move the HXTT Cobol driver jar file into Railo 3 installation directory under /lib/ext/railo-server/context/library (railo-3.3.1.000/lib/ext/railo-server/context/library).

Restart your Railo server

Then go to the url and type `http://localhost:8888/`

click Railo Server Administrator (or type `http://localhost:8888/railo-context/admin/server.cfm`).

In Services - Datasource of Railo Server Administrator console, you can Create new datasource: step 1/2 Name: enter datasource name(testcobol) and Type(Other - JDBC driver) then click create button. step 2/2 enter Class(com.hxtt.sql.cobol.CobolDriver), DSN(jdbc:cobol:///data), Username(null) and Password(null). finally click create button.

11. Where's JDBC Connection Pool Templates for GlassFish?

MS Access template is at http://www.hxtt.com/test/microsoft_access_type4_datasource.xml

Cobol data file template is at http://www.hxtt.com/test/microsoft_access_type4_datasource.xml

MS Excel template is at http://www.hxtt.com/test/microsoft_excel_type4_datasource.xml

Corel Paradox template is at http://www.hxtt.com/test/paradox_type4_datasource.xml

Xbase template is at http://www.hxtt.com/test/dbf_type4_datasource.xml

CSV template is at http://www.hxtt.com/test/csv_type4_datasource.xml

Text template is at http://www.hxtt.com/test/text_type4_datasource.xml

XML template is at http://www.hxtt.com/test/text_type4_datasource.xml

12. Where's the support package for MySQL Migration?

The support package for MySQL GUI Tools 5.0 is at http://www.hxtt.com/test/mysql_migration.zip.

The support package for MySQL Migration Toolkit v1.0.21 is at

http://www.hxtt.com/test/mysql_migration1.0.21.zip.

The support package for MySQL Migration Toolkit v1.0.20 is at

http://www.hxtt.com/test/mysql_migration1.0.20.zip.

13. How to set HXTT Cobol with Apache EmpireDB?

You should download support package from [here](#).

13. Does HXTT Cobol driver support XA connections ?

It provides an experimental com.hxtt.sql.HxttXADataSource .

14. How to set HXTT Cobol into my projects maven pom.xml.?

For instance,

Once you've downloaded the JAR just add it to your computer repository with:

```
mvn install:install-file -DgroupId=com.hxtt.sql.cobol -DartifactId=coboljdbc4 \
-Dversion=v2.0 -Dpackaging=jar -Dfile=Cobol_JDBC40.jar -DgeneratePom=true
```

The last parameter for generating a POM will save you from pom.xml warnings.

Include the new dependency by modifying your project's pom.xml. Add the following dependency:

```
<dependency>
  <groupId>com.hxtt.sql.cobol</groupId>
  <artifactId>coboljdbc4</artifactId>
  <version>v2.0</version>
</dependency>
```

Save the pom.xml file and build the project to make sure no errors exist.

15. How to set HXTT Cobol Data Source with JBoss Application Server 4.0.1?

For instance,

```
<datasources>
  <local-tx-datasource>
    <jndi-name>TestData</jndi-name>
    <connection-url>jdbc:cobol:///data</connection-url>
    <driver-class>com.hxtt.sql.cobol.CobolDriver</driver-class>
    <connection-property name="delayedClose">-1</connection-property>
    <user-name/>
    <password/>
    <min-pool-size>5</min-pool-size>
    <max-pool-size>20</max-pool-size>
    <idle-timeout-minutes>5</idle-timeout-minutes>
  </local-tx-datasource>
</datasources>
```

16. How to set HXTT Cobol database dialect with EclipseLink of Glassfish?

You should download support package and sample from [here](#).

17. How to set HXTT Cobol database dialect with TopLink of Glassfish?

You should download support package and sample from [here](#).

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