

# How do I set up JDBC to communicate with Oracle database?

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isCOBOL needs the proper JDBC driver to interact with any RDBMS, including Oracle. JDBC drivers are Java libraries (jar) that are usually supplied by the RDBMS vendor. Each RDBMS has its own drivers.

Oracle has several different types of drivers, and we recommend starting with the JDBC Thin driver. You can get Oracle's JDBC drivers here:

<http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html>. Be sure to choose the one supported by your Java version.

The JDBC jar file needs to be accessible through the CLASSPATH variable. The easiest way to do this is to put it into the %ISCOBOL%jars folder that the runtime checks automatically.

The next requirement is to put the URL and driver name in your configuration file. Example values would be:

```
iscobol.jdbc.driver=oracle.jdbc.OracleDriver
iscobol.jdbc.url=jdbc:oracle:thin:system/admin@localhost:1521:
```

Check the documentation for more information about these two variables. You can also access samples in isCOBOL's sample directory, in the %ISCOBOL%samplesdata-accessesql directory and the %ISCOBOL%sampleeasydboracle directory.

- An Oracle JDBC FAQ is at <http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-faq-090281.html>
  - The Oracle Database JDBC Developer's Guide is at [http://docs.oracle.com/cd/E11882\\_01/java.112/e16548/toc.htm](http://docs.oracle.com/cd/E11882_01/java.112/e16548/toc.htm)
  - "Choosing the Appropriate Driver" is at [http://docs.oracle.com/cd/E11882\\_01/java.112/e16548/overvw.htm#BABCHIGI](http://docs.oracle.com/cd/E11882_01/java.112/e16548/overvw.htm#BABCHIGI)
  - You can find information in the isCOBOL Evolve SDK User's Guide under Programming Guides/JDBC
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- tnsnames.ora file located in \$ORACLE\_HOME/network/admin
  - The ORACLE\_HOME environment variable set to this Oracle home

Our tnsnames.ora file contains the following:

```
MACH1.PHX03.WEST.SUN.COM =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP)(HOST = mach-1.phx03.west.sun.com)(PORT =
1521))
    )
    (CONNECT_DATA =
      (SERVICE_NAME = mach1)
    )
  )
```

which defines the mach1 service name.