

JDBC driver FAQ

Q. What date format is supported in queries?

A. The supported format is 'DD MMM YYYY'. For example:

```
INSERT INTO MyTable
(MyID, MyDate)
VALUES ( 123, '28 SEP 2003' )
```

Q. What time format is supported in queries?

A. The supported format is 'hh:mm:ss'. For example:

```
INSERT INTO MyTable
(MyID, MyTime)
VALUES ( 321, '15:26:45' )
```

Q. How do I set values for columns of type TEXT and ALPHANUMERIC using PreparedStatement?

A. Use setString method of PreparedStatement class to set values for columns of type ALPHANUMERIC. Use setCharacterStream method of PreparedStatement class to set values for columns of type TEXT.

Q. How do I enable optimization that is available in the latest versions of 4D Server?

A. You should set "com.4d.jdbc.useOptimization" connection property to "true". For example:

```
Properties      props = new Properties ( );
props. setProperty ( "com.4d.jdbc.useOptimization", "true" );
```

...

```
Connection     conn = driver. connect ( "jdbc:4d:MyIP", props );
```

Note: optimization should be enabled only if the version of 4D Server you are using in fact supports new optimized methods.

Q. What JDBC classes and methods are supported/implement?

A. See "Supported JDBC API.rtf"

Q. How do Java, 4D, and SQL types correspond to each other?

A. See "Type mappings.txt"

Q. What does 4D JDBC URL look like?

A. jdbc:4d:IP_or_DNS_address[:optional_port_number]. For example:

```
Connection     conn = driver. connect ( "jdbc:4d:127.0.0.1:19813", connProps );
```

Q. What connection properties are supported?

A. The supported properties are "port", "user", "password", "com.4d.jdbc.useOptimization", and "ssl".

Q. How do I enable secure communication over SSL?

A. To enable SSL simply set "ssl" connection property to "true":

```
Properties      props = new Properties ( );
props. setProperty ( "ssl", "true" );
```

Q. What is a full class name for 4D JDBC driver?

A. com.fourd.jdbc.DriverImpl

Q. Where can I ask more questions about 4D JDBC driver?

A. You can subscribe to the e-mail list dedicated to 4D JDBC driver at JDBC_for_4D_Server@info.4d.com.

Q. Where can I find more information about JDBC technology and API?

A. Go to <http://java.sun.com/products/jdbc/>

Q. Are stored procedures supported?

A. Yes. (See next question.)

Q. How do I make 4D method available as a stored procedure?

A. There are just a few steps required to make 4D method available as a stored procedure. First, a LONGINT variable "spErrCode" should be declared in the very beginning of the method:

```
C_LONGINT(spErrCode)
```

```
spErrCode:=1
```

Second, set the "spErrCode" variable to 0 in the end of your method:

```
spErrCode:=0
```

And third, add the following loop in the very end of your method right after "spErrCode:=0" assignment:

```
Repeat
```

```
    DELAY PROCESS(Current process;60)
```

```
Until (spErrCode>0)
```

That's it!

Q. What about 4D functionality that is not available in JDBC API?

A. There is an addition class com.fourjd.fde.FDExtensions that provides functionality specific to 4D, such as semaphores support, server date and time, and users and processes information. See "Supported JDBC API.rtf"

Q. What SQL functionality and syntax is supported?

A. See "SQL functionality and syntax.txt"

Q. SQL syntax does not allow special characters in table and column names. How do I query such tables?

A. Enclose non-standard names in square brackets [and]. For example:

```
SELECT * FROM [123 My Weird Table %&* Name]
```