SOURCE FILE . . . . CDJDBC/QRPGLESRC
MEMBER . . . . JDBC_H

```
SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
  100       /*-                                                              +
  200        * Copyright (c) 2006-2010 Scott C. Klement                      +
  300        * All rights reserved.                                          +
  400        *                                                               +
  500        * Redistribution and use in source and binary forms, with or without   +
  600        * modification, are permitted provided that the following conditions    +
  700        * are met:                                                      +
  800        * 1. Redistributions of source code must retain the above copyright     +
  900        *    notice, this list of conditions and the following disclaimer.      +
 1000        * 2. Redistributions in binary form must reproduce the above copyright  +
 1100        *    notice, this list of conditions and the following disclaimer in the +
 1200        *    documentation and/or other materials provided with the distribution. +
 1300        *                                                               +
 1400        * THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND +
 1500        * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  +
 1600        * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE +
 1700        * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE +
 1800        * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL +
 1900        * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS +
 2000        * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)   +
 2100        * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT +
 2200        * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY +
 2300        * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF   +
 2400        * SUCH DAMAGE.                                                   +
 2500        *                                                               +
 2600        */                                                              +
 2700
 2800       /if defined(JDBC_H_DEFINED)
 2900       /eof
 3000       /endif
 3100       /define JDBC_H_DEFINED
 3200
 3300       D Statement       s             O   CLASS(*JAVA:
 3400       D                                    'java.sql.Statement')
 3500       D Connection      s             O   CLASS(*JAVA:
 3600       D                                    'java.sql.Connection')
 3700       D ResultSet       s             O   CLASS(*JAVA:
 3800       D                                    'java.sql.ResultSet')
 3900       D ResultSetMetaData...
 4000       D                 s             O   CLASS(*JAVA:
 4100       D                                    'java.sql.ResultSetMetaData')
 4200       D PreparedStatement...
 4300       D                 s             O   CLASS(*JAVA:
 4400       D                                    'java.sql.PreparedStatement')
 4500       D CallableStatement...
 4600       D                 s             O   CLASS(*JAVA:
 4700       D                                    'java.sql.CallableStatement')
 4800       D Properties      s             O   CLASS(*JAVA:
 4900       D                                    'java.util.Properties')
 5000
 5100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 5200        * MySQL_Connect(): Create a connection to a MYSQL server
 5300        *
```

SOURCE FILE . . . . CDJDBC/QRPGLESRC
MEMBER . . . . JDBC_H

```
SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
 5400       *    server = (input) mysql server to connect to
 5500       *  database = (input) database to use on server
 5600       *    userid = (input) userid to log in with
 5700       *  password = (input) password to log in with
 5800       *
 5900       * Returns a connection handle or *NULL upon failure
 6000       *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 6100     D MySQL_Connect    PR              like(Connection)
 6200     D   server                  256A   varying const options(*varsize)
 6300     D   database                256A   varying const options(*varsize)
 6400     D   userid                   50A   varying const options(*varsize)
 6500     D   password                 50A   varying const options(*varsize)
 6600
 6700
 6800        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 6900        * JDBC_Connect(): Create a connection using JDBC driver
 7000        *
 7100        *    driver = (input) Java class name of JDBC driver to use
 7200        *       url = (input) JDBC URL of database to connect to
 7300        *    userid = (input) userid to log in with
 7400        *  password = (input) password to log in with
 7500        *
 7600        * Returns a connection handle or *NULL upon failure
 7700        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 7800     D JDBC_Connect     PR              like(Connection)
 7900     D   driver                  256A   varying const options(*varsize)
 8000     D   url                     256A   varying const options(*varsize)
 8100     D   userid                   50A   varying const options(*varsize)
 8200     D   password                 50A   varying const options(*varsize)
 8300
 8400        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 8500        * JDBC_ConnProp(): Connect to database w/properties object
 8600        *
 8700        *    driver = (input) Java class name of JDBC driver to use
 8800        *       url = (input) JDBC URL to connect to
 8900        *      prop = (input) properties to use when connecting
 9000        *
 9100        * Returns a connection handle or *NULL upon failure
 9200        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 9300     D JDBC_ConnProp    PR              like(Connection)
 9400     D   driver                  256A   varying const options(*varsize)
 9500     D   url                     256A   varying const options(*varsize)
 9600     D   prop                            like(Properties)
 9700
 9800
 9900        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
10000        *  JDBC_Properties():  Create new properties object
10100        *
10200        *  returns the object.
10300        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
10400     D JDBC_Properties...
10500     D                  PR              like(Properties)
10600
```

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SOURCE FILE . . . . . . .  CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .  JDBC_H

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
10700
10800        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
10900        *  JDBC_setProp():  Set one property in Properties object
11000        *
11100        *     prop = (i/o) Properties object to set property in
11200        *      key = (input) property to set
11300        *    value = (input) value to assign to property
11400        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
11500     D JDBC_setProp    PR
11600     D   prop                          like(Properties)
11700     D   key                    256A   varying const options(*varsize)
11800     D   value                  256A   varying const options(*varsize)
11900
12000
12100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
12200        *  JDBC_freeProp():  Release properties object
12300        *
12400        *     prop = (i/o) Properties object to release
12500        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
12600     D JDBC_freeProp   PR
12700     D   prop                          like(Properties)
12800
12900
13000        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
13100        *  JDBC_ExecUpd():  Execute a Query that doesn't return results
13200        *
13300        *     conn = (input) database connection
13400        *      sql = (input) SQL Code to execute
13500        *
13600        *  returns a row count, or 0 where a row count is not applicable
13700        *       or -1 upon failure
13800        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
13900     D JDBC_ExecUpd    PR            10I 0
14000     D   conn                          like(Connection) const
14100     D   sql                  32767A   varying const options(*varsize)
14200
14300
14400        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
14500        *  JDBC_ExecQry():  Execute a Query that returns a result
14600        *
14700        *     conn = (input) database connection
14800        *      sql = (input) SQL code to execute
14900        *
15000        *  Returns a result handle, or *NULL upon failure
15100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
15200     D JDBC_ExecQry    PR            like(ResultSet)
15300     D   conn                          like(Connection) const
15400     D   sql                  32767A   varying const options(*varsize)
15500
15600
15700        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
15800        *  JDBC_GetMetaData():  Get ResultSet MetaData
15900        *
```

SOURCE FILE . . . . CDJDBC/QRPGLESRC
MEMBER . . . . JDBC_H

```
SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
16000        *       rs = (input) Result handle to get metadata for
16100        *
16200        *  Returns a resultset metadata, or *NULL upon failure
16300        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
16400        D JDBC_GetMetaData...
16500        D                 PR              like(ResultSetMetaData)
16600        D   rs                            like(ResultSet)
16700
16800
16900         *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
17000        *  JDBC_GetColCount():  Get ResultSet Column Count
17100        *
17200        *       rsmd = (input) ResultSet MetaData handle
17300        *
17400        *  Returns column count
17500         *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
17600        D JDBC_GetColCount...
17700        D                 PR        10I 0
17800        D   rsmd                          like(ResultSetMetaData)
17900
18000
18100         *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
18200        *  JDBC_GetColName():  Get column name from ResultSet MetaData
18300        *
18400        *     rsmd = (input) ResultSet MetaData handle to use
18500        *      col = (input) column number to retrieve
18600        *
18700        *  Returns column name if successful, or '' otherwise
18800         *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
18900        D JDBC_GetColName...
19000        D                 PR       256A   varying
19100        D   rsmd                          like(ResultSetMetaData)
19200        D   col                   10I 0 value
19300
19400
19500         *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
19600        *  JDBC_GetColDspSize():  Get column display size from ResultSet MetaData
19700        *
19800        *     rsmd = (input) ResultSet MetaData handle to use
19900        *      col = (input) column number to retrieve
20000        *
20100        *  Returns column display size
20200         *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
20300        D JDBC_GetColDspSize...
20400        D                 PR        10I 0
20500        D   rsmd                          like(ResultSetMetaData)
20600        D   col                   10I 0 value
20700
20800
20900         *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
21000        *  JDBC_GetColTypName():  Get column SQL type name from ResultSet MetaData
21100        *
21200        *     rsmd = (input) ResultSet MetaData handle to use
```

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SOURCE FILE . . . . . . .  CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .  JDBC_H

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
21300       *        col = (input) column number to retrieve
21400       *
21500       *   Returns column SQL type name
21600        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
21700       D JDBC_GetColTypName...
21800       D                 PR            256A    varying
21900       D   rsmd                                like(ResultSetMetaData)
22000       D   col                          10I 0 value
22100
22200
22300        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
22400       *   JDBC_ NextRow():  Position result to next row
22500       *
22600       *        rs = (input) Result handle to move
22700       *
22800       *   Returns *ON if successful, *OFF otherwise
22900        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
23000       D JDBC_NextRow    PR             1N
23100       D   rs                                 like(ResultSet)
23200
23300
23400        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
23500       *   JDBC_GetCol():  Get column from current row
23600       *
23700       *        rs = (input) Result handle to use
23800       *       col = (input) column number to retrieve
23900       *   nullInd = (output/optional) will be set to *ON if the
24000       *             field is null, or *OFF otherwise.
24100       *
24200       *   Returns column value if successful, or '' otherwise
24300        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
24400       D JDBC_GetCol     PR           32767A   varying
24500       D   rs                                 like(ResultSet)
24600       D   col                          10I 0 value
24700       D   nullInd                       1N    options(*nopass:*omit)
24800
24900
25000        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
25100       *   JDBC_GetColC():  Get column from current row in Unicode
25200       *
25300       *        rs = (input) Result handle to use
25400       *       col = (input) column number to retrieve
25500       *   nullInd = (output/optional) will be set to *ON if the
25600       *             field is null, or *OFF otherwise.
25700       *
25800       *   Returns column value if successful, or '' otherwise
25900        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
26000       D JDBC_GetColC    PR           16383C   varying
26100       D   rs                                 like(ResultSet)
26200       D   col                          10I 0 value
26300       D   nullInd                       1N    options(*nopass:*omit)
26400
26500
```

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SOURCE FILE . . . . . . .   CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .   JDBC_H

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
26600        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
26700        *  JDBC_FreeResult(): Free result handle
26800        *
26900        *     rs = (input) Result handle to free
27000        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
27100     D JDBC_FreeResult...
27200     D                     PR
27300     D   rs                              like(ResultSet)
27400
27500
27600        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
27700        *  JDBC_Commit():  Commit transaction
27800        *
27900        *     conn = (input) Connection to commit on
28000        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
28100     D JDBC_Commit     PR
28200     D   conn                            like(Connection)
28300
28400
28500        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
28600        *  JDBC_Rollback():  Rollback transaction
28700        *
28800        *     conn = (input) Connection to rollback on
28900        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
29000     D JDBC_Rollback   PR
29100     D   conn                            like(Connection)
29200
29300
29400        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
29500        *  JDBC_Close():  Close connection to Server
29600        *                 and free connection handle
29700        *
29800        *     conn = (input) Connection to close
29900        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
30000     D JDBC_Close      PR
30100     D   conn                            like(Connection)
30200
30300
30400        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
30500        * JDBC_PrepStmt(): Create a Prepared Statement
30600        *
30700        *    conn = (input) Connection to prepare statement for
30800        *     sql = (input) SQL statement to prepare
30900        *
31000        * Returns a prepared statement object, or *NULL upon error
31100        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
31200     D JDBC_PrepStmt   PR              like(PreparedStatement)
31300     D   conn                          like(Connection) const
31400     D   sql                   32767A   varying const options(*varsize)
31500
31600
31700        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
31800        * JDBC_PrepCall(): Create a Callable Statement
```

SOURCE FILE . . . .   CDJDBC/QRPGLESRC
MEMBER . . . .   JDBC_H

```
SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
31900        *
32000        *    conn = (input) Connection to prepare call statement for
32100        *     sql = (input) SQL call statement to prepare
32200        *
32300        * Returns a callable statement object, or *NULL upon error
32400        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
32500       D JDBC_PrepCall   PR               like(CallableStatement)
32600       D   conn                           like(Connection) const
32700       D   sql                  32767A    varying const options(*varsize)
32800
32900
33000        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
33100        * JDBC_PrepCallC(): Create a Prepared Call
33200        *                   using a Unicode string
33300        *
33400        *    conn = (input) Connection to prepare call for
33500        *     sql = (input) SQL call to prepare
33600        *
33700        * Returns a prepared call object, or *NULL upon error
33800        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
33900       D JDBC_PrepCallC  PR               like(CallableStatement)
34000       D   conn                           like(Connection) const
34100       D   sql                  16383C    varying const options(*varsize)
34200
34300
34400        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
34500        * JDBC_PrepStmtC(): Create a Prepared Statement
34600        *                   from a Unicode String
34700        *
34800        *    conn = (input) Connection to prepare statement for
34900        *     sql = (input) SQL statement to prepare
35000        *
35100        * Returns a prepared statement object, or *NULL upon error
35200        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
35300       D JDBC_PrepStmtC  PR               like(PreparedStatement)
35400       D   conn                           like(Connection) const
35500       D   sql                  16383c    varying const options(*varsize)
35600
35700
35800        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
35900        * JDBC_SetString(): Set a string in a prepared statement
36000        *
36100        *    prep = (input) Prepared statement to set string in
36200        *     idx = (input) Parameter index to set
36300        *     str = (input) String to set
36400        *    null = (input/optional) set field to NULL in database
36500        *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
36600       D JDBC_SetString...
36700       D                 PR            1N
36800       D   prep                          like(PreparedStatement) const
36900       D   idx                  10I 0 value
37000       D   str                  32767A    varying const options(*varsize)
37100       D   null                 1N    const options(*nopass)
```

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SOURCE FILE . . . . . . .   CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .   JDBC_H

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
37200
37300
37400         *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
37500         * JDBC_SetStringC(): Set a string in a prepared statement
37600         *                  using Unicode input
37700         *
37800         *    prep = (input) Prepared statement to set string in
37900         *     idx = (input) Parameter index to set
38000         *     str = (input) String to set
38100         *    null = (input/optional) set field to NULL in database
38200         *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
38300       D JDBC_SetStringC...
38400       D                 PR            1N
38500       D   prep                              like(PreparedStatement) const
38600       D   idx                       10I 0 value
38700       D   str                     16383C   varying const options(*varsize)
38800       D   null                        1N   const options(*nopass)
38900
39000
39100         *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
39200         * JDBC_SetInt(): Set an integer in a prepared statement
39300         *
39400         *    prep = (input) Prepared statement to set value in
39500         *     idx = (input) Parameter index to set
39600         *     int = (input) value to set
39700         *    null = (input/optional) set field to NULL in database
39800         *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
39900       D JDBC_SetInt      PR            1N
40000       D   prep                              like(PreparedStatement) const
40100       D   idx                       10I 0 value
40200       D   int                       10I 0 value
40300       D   null                        1N   const options(*nopass)
40400
40500
40600         *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
40700         * JDBC_SetDouble(): Set a floating point value in a prepared
40800         *                  statement
40900         *
41000         *    prep = (input) Prepared statement to set value in
41100         *     idx = (input) Parameter index to set
41200         *  double = (input) value to set
41300         *    null = (input/optional) set field to NULL in database
41400         *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
41500       D JDBC_SetDouble...
41600       D                 PR            1N
41700       D   prep                              like(PreparedStatement) const
41800       D   idx                       10I 0 value
41900       D   double                     8F   value
42000       D   null                        1N   const options(*nopass)
42100
42200
42300         *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
42400         * JDBC_SetDecimal(): Set a decimal value in a prepared stmt
```

```
SOURCE FILE . . . . . . . CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . . JDBC_H


SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
42500       *
42600       *    prep = (input) Prepared statement to set value in
42700       *     idx = (input) Parameter index to set
42800       *     dec = (input) value to set
42900       *    null = (input/optional) set field to NULL in database
43000       *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
43100     D JDBC_SetDecimal...
43200     D                   PR            1N
43300     D   prep                               like(PreparedStatement) const
43400     D   idx                        10I 0 value
43500     D   dec                        30P 9 value
43600     D   null                        1N   const options(*nopass)
43700
43800
43900      *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
44000      * JDBC_SetDate(): Set a date value in a prepared stmt
44100      *
44200      *    prep = (input) Prepared statement to set value in
44300      *     idx = (input) Parameter index to set
44400      *    date = (input) value to set
44500      *    null = (input/optional) set field to NULL in database
44600      *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
44700     D JDBC_SetDate...
44800     D                   PR            1N
44900     D   prep                               like(PreparedStatement) const
45000     D   idx                        10I 0 value
45100     D   date                        D    datfmt(*iso) const
45200     D   null                        1N   const options(*nopass)
45300
45400
45500      *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
45600      * JDBC_SetTime(): Set a time value in a prepared stmt
45700      *
45800      *    prep = (input) Prepared statement to set value in
45900      *     idx = (input) Parameter index to set
46000      *    time = (input) value to set
46100      *    null = (input/optional) set field to NULL in database
46200      *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
46300     D JDBC_SetTime...
46400     D                   PR            1N
46500     D   prep                               like(PreparedStatement) const
46600     D   idx                        10I 0 value
46700     D   time                        T    timfmt(*hms) const
46800     D   null                        1N   const options(*nopass)
46900
47000
47100      *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
47200      * JDBC_SetTimestamp(): Set a timestamp value in a prepared stmt
47300      *
47400      *    prep = (input) Prepared statement to set value in
47500      *     idx = (input) Parameter index to set
47600      *      ts = (input) value to set
47700      *    null = (input/optional) set field to NULL in database
```

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SOURCE FILE . . . . . . .   CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .   JDBC_H

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
47800           *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
47900         D JDBC_SetTimestamp...
48000         D                     PR              1N
48100         D   prep                                  like(PreparedStatement) const
48200         D   idx                           10I 0 value
48300         D   ts                            Z    const
48400         D   null                          1N   const options(*nopass)
48500
48600
48700            *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
48800            * JDBC_RegisterOutParameter(): Register an output parameter
48900            *                      returned from a stored-proc call
49000            *
49100            *    call = (input) Callable statement to register output for
49200            *     idx = (input) Parameter index to register
49300            *    type = (input) Data type to register
49400            *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
49500         D JDBC_RegisterOutParameter...
49600         D                     PR
49700         D   call                                  like(CallableStatement) const
49800         D   idx                           10I 0 value
49900         D   type                          10I 0 value
50000
50100
50200            *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
50300            *  JDBC_GetString():  Get string from Callable Statement
50400            *
50500            *    call = (input) Callable Statement handle to use
50600            *     idx = (input) parameter index to retrieve
50700            *
50800            *  Returns string value if successful, or '' otherwise
50900            *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
51000         D JDBC_GetString...
51100         D                     PR        32767A   varying
51200         D   call                                  like(CallableStatement) const
51300         D   idx                           10I 0 value
51400
51500
51600            *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
51700            *  JDBC_GetInt():  Get integer from Callable Statement
51800            *
51900            *    call = (input) Callable Statement handle to use
52000            *     idx = (input) parameter index to retrieve
52100            *
52200            *  Returns int value if successful, or 0 otherwise
52300            *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
52400         D JDBC_GetInt...
52500         D                     PR        10I 0
52600         D   call                                  like(CallableStatement) const
52700         D   idx                           10I 0 value
52800
52900
53000            *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

SOURCE FILE . . . . CDJDBC/QRPGLESRC
MEMBER . . . . JDBC_H

```
SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
53100          *  JDBC_GetShort():  Get short from Callable Statement
53200          *
53300          *    call = (input) Callable Statement handle to use
53400          *     idx = (input) parameter index to retrieve
53500          *
53600          *  Returns int value if successful, or 0 otherwise
53700          *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
53800          D JDBC_GetShort...
53900          D                 PR            10I 0
54000          D   call                            like(CallableStatement) const
54100          D   idx                       10I 0 value
54200
54300
54400           *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
54500          *  JDBC_GetBoolean():  Get boolean from Callable Statement
54600          *
54700          *    call = (input) Callable Statement handle to use
54800          *     idx = (input) parameter index to retrieve
54900          *
55000          *  Returns a boolean value if successful, or *OFF otherwise
55100           *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
55200          D JDBC_GetBoolean...
55300          D                 PR             1N
55400          D   call                            like(CallableStatement) const
55500          D   idx                       10I 0 value
55600
55700
55800           *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
55900          * JDBC_ExecPrepQry(): Execute a query from a prepared statement
56000          *
56100          *    prep = (input) prepared statement to execute
56200          *
56300          * Returns ResultSet object or *NULL upon failure
56400           *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
56500          D JDBC_ExecPrepQry...
56600          D                 PR            like(ResultSet)
56700          D   prep                          like(PreparedStatement) const
56800
56900
57000           *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
57100          * JDBC_ExecPrepUpd(): Execute SQL that doesn't return data
57200          *                     from a prepared statement
57300          *
57400          *    prep = (input) prepared statement to execute
57500          *
57600          * Returns 0 or a row count if successful
57700          *     or -1 upon failure
57800           *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
57900          D JDBC_ExecPrepUpd...
58000          D                 PR            10I 0
58100          D   prep                          like(PreparedStatement) const
58200
58300
```

```
SOURCE FILE . . . . . . .    CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .    JDBC_H


SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
58400        *+++++++++++++++++++++++++++++++++++++++++++++++++++++
58500        * JDBC_ExecCall(): Execute SQL statement that calls a stored
58600        *                          procedure
58700        *
58800        *      call = (input) callable statement to execute
58900        *
59000        * Returns *ON if first result is a ResultSet
59100        *      or *OFF if first result is an update count
59200        *
59300        * Use JDBC_moreResults(), JDBC_getUpdateCount() and
59400        *    JDBC_getResultSet() to get results of this function
59500        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
59600      D JDBC_ExecCall...
59700      D                 PR              1N
59800      D   call                              like(CallableStatement) const
59900
60000
60100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
60200        * JDBC_FreePrepStmt(): Free prepared statement
60300        *
60400        *    prep = (input) Prepared Statement to Free
60500        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
60600      D JDBC_FreePrepStmt...
60700      D                 PR
60800      D   prep                              like(PreparedStatement)
60900
61000
61100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
61200        * JDBC_FreeCallStmt(): Free callable statement
61300        *
61400        *    call = (input) Callable Statement to Free
61500        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
61600      D JDBC_FreeCallStmt...
61700      D                 PR
61800      D   call                              like(CallableStatement)
61900
62000
62100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
62200        *  JDBC_GetColByName():  Get column from current row by
62300        *                          column name
62400        *
62500        *        rs = (input) Result handle to use
62600        *  columnName = (input) column name to retrieve
62700        *     nullInd = (output/optional) will be set to *ON if the
62800        *               field is null, or *OFF otherwise.
62900        *
63000        *  Returns column value if successful, or '' otherwise
63100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
63200      D JDBC_GetColByName...
63300      D                 PR        32767a   varying
63400      D   rs                               Like(ResultSet)
63500      D   ColumnName            32767a   varying Const options(*varsize)
63600      D   nullInd                    1N   options(*nopass:*omit)
```

```
SOURCE FILE . . . . . . .  CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .  JDBC_H

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
63700
63800
63900        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
64000        *  JDBC_GetColByNameC():  Get column data in Unicode from the
64100        *                         current row by column name.
64200        *
64300        *         rs = (input) Result handle to use
64400        *  columnName = (input) column name to retrieve
64500        *     nullInd = (output/optional) will be set to *ON if the
64600        *               field is null, or *OFF otherwise.
64700        *
64800        *  Returns column value if successful, or '' otherwise
64900        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
65000        D JDBC_GetColByNameC...
65100        D                 pr            16383c   varying
65200        D  rs                                    Like(ResultSet)
65300        D  ColumnName               16383c   varying Const options(*varsize)
65400        D  nullInd                     1N   options(*nopass:*omit)
65500
65600
65700        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
65800        *  JDBC_getUpdateCount(): Get the number of rows modified
65900        *       by the last call to JDBC_ExecCall()
66000        *
66100        *       stmt = (input) PreparedStatement or CallableStatement
66200        *
66300        *  Returns number of modified rows, or -1 if the current
66400        *       result is a ResultSet or if there are no results
66500        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
66600        D JDBC_getUpdateCount...
66700        D                 pr            10i 0
66800        D  stmt                                 Like(Statement) const
66900
67000
67100        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
67200        *  JDBC_getResultSet(): Get the first/next ResultSet
67300        *       returned by JDBC_ExecCall()
67400        *
67500        *       stmt = (input) PreparedStatement or CallableStatement
67600        *
67700        *  Returns the ResultSet or *NULL if the current result is
67800        *       not a ResultSet or if there are no more results
67900        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
68000        D JDBC_getResultSet...
68100        D                 pr                     like(ResultSet)
68200        D  stmt                                 Like(Statement) const
68300
68400
68500        *+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
68600        *  JDBC_getMoreResults(): Move the results of this statement
68700        *       to the next result returned.
68800        *
68900        *       stmt = (input) PreparedStatement or CallableStatement
```

```
SOURCE FILE . . . . . . .   CDJDBC/QRPGLESRC
MEMBER  . . . . . . . . .   JDBC_H

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
69000       *
69100       *  Returns *ON if the next result is a ResultSet object,
69200       *          or *OFF if it's an update count or there are no
69300       *          more results
69400       *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
69500     D JDBC_getMoreResults...
69600     D                   pr              1n
69700     D  stmt                             Like(Statement) const
69800
69900
70000       *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
70100       * JDBC_Execute(): Execute Prepared SQL Statement
70200       *
70300       *      stmt = (input) prepared statement to execute
70400       *
70500       * Returns *ON if first result is a ResultSet
70600       *     or *OFF if first result is an update count
70700       *
70800       * Use JDBC_moreResults(), JDBC_getUpdateCount() and
70900       *     JDBC_getResultSet() to get results of this function
71000       *++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
71100     D JDBC_Execute...
71200     D                   PR              1N
71300     D  stmt                             like(PreparedStatement) const


                        * * * *  E N D  O F  S O U R C E  * * * *
```