
ZeosDBO SQL Specific Parameters

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1. Generic Parameters

1.1. Connection parameters

- defaults=[yes,no] - Calculate default values for NULL fields.

1.2. Statement parameters

- defaults=[yes,no] - Calculate default values for NULL fields.

2. MySQL Driver Parameters

2.1. Connection parameters

- compress=[yes,no] - Turn on/off compression protocol
- dbless=[yes,no] - Connect to the real database or not (dbless mode)
- useresult=[yes,no] - Fetching rows using UseResult instead StoreResult.
- timeout=<seconds> - Connection timeout in seconds.
- codepage=<client codepage> - Sets a client codepage. It executes a SET CHARACTER SET <client codepage> statement righ after connect. Refer your MySQL server manual for details.
- all mysql_real_connect clientflags are now supported using the names from the enum type below. (Eg. CLIENT_MULTI_STATEMENTS=TRUE) :

```
TMYSQL_CLIENT_OPTIONS =
( CLIENT_LONG_PASSWORD, { = 1;      { new more secure passwords }
    CLIENT_FOUND_ROWS , { = 2;      { Found instead of affected rows }
    CLIENT_LONG_FLAG   , { = 4;      { Get all column flags }
    CLIENT_CONNECT_WITH_DB, { = 8;     { One can specify db on connect }
    CLIENT_NO_SCHEMA   , { = 16;    { Don't allow database.table.column }
    CLIENT_COMPRESS    , { = 32;    { Can use compression protcol }
```

```
CLIENT_ODBC      , { = 64;   { Odbc client }
CLIENT_LOCAL_FILES , { = 128;  { Can use LOAD DATA LOCAL }
CLIENT_IGNORE_SPACE , { = 256;  { Ignore spaces before '(' }
CLIENT_CHANGE_USER , { = 512;  { Support the mysql_change_user() }
CLIENT_INTERACTIVE , { = 1024; { This is an interactive client }
CLIENT_SSL       , { = 2048; { Switch to SSL after handshake }
CLIENT_IGNORE_SIGPIPE , { = 4096; { IGNORE sigpipes }
CLIENT_TRANSACTIONS , { = 8196; { Client knows about transactions }
CLIENT_RESERVED   , { = 16384; { old flag for 4.1 protocol }
CLIENT_SECURE_CONNECTION , { = 32768; { New 4.1 authentication }
CLIENT_MULTI_STATEMENTS , { = 65536; { Enable/disable multi-stmt support }
CLIENT_MULTI_RESULTS , { = 131072; { Enable/disable multi-results }
CLIENT_OPT_18, {2^18 = 262144}
CLIENT_OPT_19,{2^19 = 524288}
CLIENT_OPT_20, {2^20 = 1048576}
CLIENT_OPT_21, {2^21 = 2097152 }
CLIENT_OPT_22, {2^22 = 4194304}
CLIENT_OPT_23, {2^23 = 8388608 }
CLIENT_OPT_24, {2^24 = 16777216 }
CLIENT_OPT_25, {2^25 = 33554432}
CLIENT_OPT_26, {2^26 = 67108864}
CLIENT_OPT_27, {2^27 = 134217728}
CLIENT_OPT_28, {2^28 = 268435456}
CLIENT_OPT_29, {2^29 = 536870912}
CLIENT_OPT_30, {2^30 = 1073741824}
CLIENT_REMEMBER_OPTIONS { = 2147483648; {Enable/disable multi-results } );
```

- all mysql_options are now supported using the names from the enum type below. (Eg. MYSQL_READ_DEFAULT_FILE=<filename>):

```
TMySqlOption = (
  MYSQL_OPT_CONNECT_TIMEOUT,
  MYSQL_OPT_COMPRESS,
  MYSQL_OPT_NAMED_PIPE,
  MYSQL_INIT_COMMAND,
  MYSQL_READ_DEFAULT_FILE,
  MYSQL_READ_DEFAULT_GROUP,
  MYSQL_SET_CHARSET_DIR,
  MYSQL_SET_CHARSET_NAME,
  MYSQL_OPT_LOCAL_INFILE,
  MYSQL_OPT_PROTOCOL,
  MYSQL_SHARED_MEMORY_BASE_NAME,
  MYSQL_OPT_READ_TIMEOUT,
  MYSQL_OPT_WRITE_TIMEOUT,
  MYSQL_OPT_USE_RESULT,
  MYSQL_OPT_USE_REMOTE_CONNECTION,
  MYSQL_OPT_USE_EMBEDDED_CONNECTION,
  MYSQL_OPT_GUESS_CONNECTION,
  MYSQL_SET_CLIENT_IP,
  MYSQL_SECURE_AUTH
);
```

- SSL connections are supported using this connection properties (using mysql_sll_set library call) :

```
Properties.Strings = (
  'MYSQL_SSL=TRUE'
  'MYSQL_SSL_CA=D:/mysql/certs/ca-cert.pem'
  'MYSQL_SSL_CERT=D:/mysql/certs/client-cert.pem'
  'MYSQL_SSL_KEY=D:/mysql/certs/client-key.pem' )
```

2.2. Statement parameters

- userresult=[yes,no] - Fetching rows using UseResult instead StoreResult.

3. PostgreSQL Driver Parameters

3.1. Connection parameters

- beginreq=[yes,no] - Is BEGIN required at the transaction start or not.
- oidasblob=[yes,no] - Is Oid type treated as Large Object handle (blob) or as a regular integer.
- timeout=<seconds> - Connection timeout in seconds.
- codepage=<client codepage> - Sets a client codepage. It executes a SET CLIENT_ENCODING '<client codepage>' statement right after connect.

3.2. Statement parameters

- oidasblob=[yes,no] - Is Oid type treated as Large Object handle (blob) or as a regular integer.

4. MS SQL Driver Parameters

4.1. Connection parameters

- appname=<application name> - The given application name is sent to sqlserver.
- workstation=<workstation name> - The given workstation name is sent to sqlserver
- secure=[yes,no] - This means that SQL Server will use Windows Authentication security.
- trusted=[yes,no] - This means that SQL Server will use Windows Authentication security.
- language=<national language name> - The given language is sent to sqlserver. If language support is installed in the server, error messages are returned in the designated national language.
- fallback=[yes,no] - Enables or disables failover support
- timeout=<seconds> - Is the time-out value, or the number of seconds that DB-Library waits for a login response before timing out. A time-out value of 0 represents an infinite time-out period. The default time-out value is 60 seconds.

5. Interbase Driver Parameters

5.1. Connection parameters

- codepage=<national language name> - The given language is sent to sqlserver. If language support is installed in the server, error messages are returned in the designated national language.

- createNewDatabase=<sql command database creation> - Created new database before open database defined in TZConnection.
- dialect=it is parameter of Interbase/Firebird sql dialect. dialect parameter is sinonim of isc_dpb_sql_dialect parameter.
- RoleName=it is sinonim for isc_dpb_sql_role_name parameter Interbase/Firebird. It allow set user role name to work with database and to gain the privileges of that role.
- hard_commit=[yes,no] - Use hard commits instead of soft commits.

5.2. Statement parameters

- cursor=<cursor name> - The given cursor name is sent to sql server.
- cashedblob=[yes,no] - This means that blob data fetch immediate if [yes] or used interbase blob if [no].