PG_CONNECT

PG_CONNECT action

Function

The function establishes the connection to a table.

Declaration

```
 PG_CONNECT dbObjIdent, accessIdent_Int, handleIdent_Int, pgSizeIdent_Int,
whereIdent_Str, orderByIdent_Str, rowsCountIdent_Int, retCodeIdent_Int
[TRANS transHandle_Int] [MODE mode_Int] [ORAHINT hintIdent_Str]
```

Parameters

dbObjIdent	in	Reference to an object of the *Database table* type.
accessIdent_Int	in	Value identifier: required access to the table (_DB_READ, _DB_MODIFY).
handleIdent_Int	out	Identifier for an unique number (handle) of the connection to the table.
pgSizeIdent_Int	in	Identifier to determine maximal page size.
whereIdent_Str	in	Identifier of the *Text* type. Condition to select from the table.
orderByIdent_Str	in	Identifier of the *Text* type. Sorting in the final selection.
rowsCountIdent_Int	out	Identifier of the *Int* type. The number of rows in the selection.
retCodeIdent_Int	out	Return code identifier.
transHandle_Int	in	Identifier for a unique number (handle) for the connection to the database.
mode_Int	in	Identifier of *Int* type - 0/1.
hintIdent_Str	in	Expression of the *String* type that defines Oracle SQL hint. It is used as an instruction for the performance optimizer of SQL command. The value is used without the opening and terminating characters /*+ <*orahint*> */. The example is mentioned here. **Note:** In this situation, Oracle SQL hint is used for ESL action PG_READ, because in ESL action SQL_CONNECT SELECT expression is compounded for next called ESL action PG_READ.

Return code

The value of the parameter *transHandle_Int*. See the table of error codes. It is possible to get extended error information.

Description

Page access is initialized by the action **PG_CONNECT**. It performs the table opening, during which it is possible to specify conditions for the final selection (reduction of visible rows in the table). Selection is limited by the condition with the value `whereIdent_Str`. This text (a value of the identifier `whereIdent_Str`) is used in the clause **WHERE** in the SQL command.

The action allows to define a way to sort rows in the final selection by means of a value of the identifier `orderByIdent_Str`. The value of the identifier is used in the clause ORDER BY in the SQL command.

The required page size is defined by a value of the identifier *pgSizeIdent_Int*. This page size is to be used during reading from the table (whole page is read at the same time). A larger page may cause the big memory block allocation, and thereby to cause the malfunction of the operating system.
Maximum number of returned rows is limited by a Database configuration parameter Maximum returned rows.

After the successful opening of a table (*retCodeIdent_Int* = _ERR_NO_ERROR), the identifier *rowsCountIdent_Int* contains the number of rows in the final selection and the identifier *handleIdent_Int* contains the number of the connection (handle).

If the parameter *mode_Int* = *1*, the pages can be read only sequentially from 1 to maximal page. Moving back is disabled. In this case, DbManager will use optimal way of reading from database. If parameter is not usde, the value is = 0.

Having finished a work with a table, it is necessary to close it using the action PG_DISCONNECT.

Example

Work with a database table (actions PG_ ...).

Related topics

DB_TRANS_OPEN
DB_TRANS_COMMIT
DB_TRANS_ROLLBACK
DB_TRANS_CLOSE

PG_DISCONNECT
PG_READ
PG_INSERT
PG_DELETE
PG_UPDATE

All database related actions

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