rawSQL

Feb 16, 2024 16:40

Supported Clients

SmartClient WebClient NGClient

Methods Summary

Boolean	executeSQL(serverName, sql)	Execute any SQL, returns true if successful.
Boolean	executeSQL(serverName, sql, sql_args)	Execute any SQL, returns true if successful.
Array	executeStoredProcedure(serverName, procedureDeclaration, arguments, maxNumberOfRowsToRetrieve)	Execute a stored procedure, return all created result sets.
JSDataSet	executeStoredProcedure(serverName, procedureDeclaration, arguments, inOutDirectionality, maxNumberOfRowsToRetrieve)	Execute a stored procedure.
Boolean	flushAllClientsCache(serverName, tableName)	Flush cached database data.
Exception	getException()	If the result from a function was false, it will return the exception object.
Boolean	notifyDataChange(serverName, tableName, pksDataset, action)	Notify clients about changes in records, based on pk(s).

Methods Details

executeSQL(serverName, sql)

Execute any SQL, returns true if successful.

Parameters

String serverName the name of the server
String sql the sql query to execute

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
/*************************************************************************
WARNING! You can cause data loss or serious data integrity compromises!
You should have a THOROUGH understanding of both SQL and your backend
database (and other interfaces that may use that backend) BEFORE YOU USE
ANY OF THESE COMMANDS.
You should also READ THE DOCUMENTATION BEFORE USING ANY OF THESE COMMANDS
*************************************************************************/

var country = 'NL'
var done = plugins.rawSQL.executeSQL("example_data","update employees set country = ?", [country])
if (done)
{
        //flush is required when changes are made in db
        plugins.rawSQL.flushAllClientsCache("example_data","employees")
}
else
{
        var msg = plugins.rawSQL.getException().getMessage(); //see exception node for more info about the
exception obj
        plugins.dialogs.showErrorDialog('Error',  'SQL exception: '+msg,  'Ok')
}

// Note that when this function is used to create a new table in the database, this table will only be seen by
// the Servoy Application Server when the table name starts with 'temp_', otherwise a server restart is needed.
```

executeSQL(serverName, sql, sql_args)

Execute any SQL, returns true if successful.

Parameters

String	serverName	the name of the server
String	sql	the sql query to execute
Array	sql_args	the arguments for the query

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
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exception obj
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}

// Note that when this function is used to create a new table in the database, this table will only be seen by
// the Servoy Application Server when the table name starts with 'temp_', otherwise a server restart is needed.
```

executeStoredProcedure(serverName, procedureDeclaration, arguments, maxNumberOfRowsToRetrieve)

Execute a stored procedure, return all created result sets.

Parameters

String	serverName	;
String	procedureDeclaration	;
Array	arguments	;
Number	maxNumberOfRowsToRetrieve	;

Returns

Array the result sets created by the procedure.

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
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*****************************************************************************/

var maxReturnedRows = 10; //useful to limit number of rows
var procedure_declaration = '{ get_unpaid_orders_and_their_customers(?) }'
var args = [42]
var datasets = plugins.rawSQL.executeStoredProcedure(databaseManager.getDataSourceServerName(controller.
getDataSource()), procedure_declaration, args, maxReturnedRows);
for (var i = 0; i < datasets.length; i++) {
        var ds = datasets[i]
        // process dataset
}
```

executeStoredProcedure(serverName, procedureDeclaration, arguments, inOutDirectionality, maxNumberOfRowsToRetrieve)

Execute a stored procedure.

Parameters

String serverName ;
String procedureDeclaration ;
Array arguments ;
Array inOutDirectionality ;
Number maxNumberOfRowsToRetrieve ;

Returns

JSDataSet a dataset with output (in case of output data) or the last result set executed by the procedure.

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
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*****************************************************************************/

var maxReturnedRows = 10; //useful to limit number of rows
var procedure_declaration = '{?=calculate_interest_rate(?)}'
// define the direction, a 0 for input data, a 1 for output data
var typesArray = [1, 0];
// define the types and values, a value for input data, a sql-type for output data
var args = [java.sql.Types.NUMERIC, 3000]
// A dataset is returned, when no output-parameters defined, the last select-result in the procedure will be
returned.
// When one or more output-parameters are defined, the dataset will contain 1 row with the output data.
var dataset = plugins.rawSQL.executeStoredProcedure(databaseManager.getDataSourceServerName(controller.
getDataSource()), procedure_declaration, args, typesArray, maxReturnedRows);
var interest_rate = dataset.getValue(1, 1);
```

flushAllClientsCache(serverName, tableName)

Flush cached database data. Use with extreme care, its affecting the performance of clients!

Parameters

String serverName ;
String tableName ;

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
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exception obj
        plugins.dialogs.showErrorDialog('Error',  'SQL exception: '+msg,  'Ok')
}

// Note that when this function is used to create a new table in the database, this table will only be seen by
// the Servoy Application Server when the table name starts with 'temp_', otherwise a server restart is needed.
```

getException()

If the result from a function was false, it will return the exception object.

Returns

Exception

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
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}

// Note that when this function is used to create a new table in the database, this table will only be seen by
// the Servoy Application Server when the table name starts with 'temp_', otherwise a server restart is needed.
```

notifyDataChange(serverName, tableName, pksDataset, action)

Notify clients about changes in records, based on pk(s). Use with extreme care, its affecting the performance of clients!

Parameters

String	serverName	;
String	tableName	;
JSDataSet	pksDataset	;
Number	action	;

Returns

Boolean

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
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*****************************************************************************/

var action = SQL_ACTION_TYPES.DELETE_ACTION //pks deleted
//var action = SQL_ACTION_TYPES.INSERT_ACTION //pks inserted
//var action = SQL_ACTION_TYPES.UPDATE_ACTION //pks updates
var pksdataset = databaseManager.convertToDataSet(new Array(12,15,16,21))
var ok = plugins.rawSQL.notifyDataChange(databaseManager.getDataSourceServerName(controller.getDataSource()),
'employees', pksdataset,action)
```