

rawSQL

Server Property Summary

[#servoy.rawSQL.allowClientCacheFlushes](#)

Method Summary

Boolean	#executeSQL (serverName, tableName, sql) Execute any SQL, returns true if successful.
Boolean	#executeSQL (serverName, tableName, sql, sql_args) Execute any SQL, returns true if successful.
JSDataSet	#executeStoredProcedure (serverName, procedureDeclaration, arguments, inOutDirectionality, maxNumberOfRowsToRetrieve) Execute a stored procedure.
Boolean	#flushAllClientsCache (serverName, tableName) Flush cached database data.
ServoyException	#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).

Server Property Details

[servoy.rawSQL.allowClientCacheFlushes](#)

In case of performance problem you might want to disable this (true/false)

Method Details

[executeSQL](#)

Boolean [executeSQL](#)(serverName, tableName, sql)

Execute any SQL, returns true if successful.

Parameters

{String} serverName – the name of the server

{String} tableName – the name of the table

{String} sql – the sql query to execute

Returns

Boolean

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  
  
Note that when server names have been switched (databasemanager.switchServer), the  
real server names must be used here, plugins.rawQuery is not transparent to switched servers.  
*****/  
  
var country = 'NL'  
var done = plugins.rawQuery.executeSQL("example_data","employees","update employees set country = ?", [country])  
if (done)  
{  
    //flush is required when changes are made in db  
    plugins.rawQuery.flushAllClientsCache("example_data","employees")  
}  
else  
{  
    var msg = plugins.rawQuery.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

Boolean **executeSQL**(serverName, tableName, sql, sql_args)

Execute any SQL, returns true if successful.

Parameters

{String} serverName – the name of the server

{String} tableName – the name of the table

{String} sql – the sql query to execute

{Object[]} sql_args – the arguments for the query

Returns

Boolean

Sample

```

/*****
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var done = plugins.rawQuery.executeSQL("example_data","employees","update employees set country = ?", [country])
if (done)
{
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    plugins.rawQuery.flushAllClientsCache("example_data","employees")
}
else
{
    var msg = plugins.rawQuery.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.

```

executeStoredProcedure

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

Execute a stored procedure.

Parameters

{String} serverName

{String} procedureDeclaration

{Object[]} arguments

{Number[]} inOutDirectionality

{Number} maxNumberOfRowsToRetrieve

Returns

JSDataSet

Sample

```

/*****
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Note that when server names have been switched (databasemanager.switchServer),the
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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.rawQuery.executeStoredProcedure(controller.getServerName(), procedure_declaration, args,
typesArray, maxReturnedRows);
var interest_rate = dataset.getValue(1, 1);

```

flushAllClientsCache

Boolean `flushAllClientsCache(serverName, tableName)`

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

Parameters

`{String}` serverName

`{String}` tableName

Returns

`Boolean`

Sample

```

/*****
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var country = 'NL'
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if (done)
{
    //flush is required when changes are made in db
    plugins.rawQuery.flushAllClientsCache("example_data","employees")
}
else
{
    var msg = plugins.rawQuery.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.

```

`getException`

`ServoyException` `getException()`

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

Returns

`ServoyException`

Sample

```
/******
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Note that when server names have been switched (databaseManager.switchServer),the
real server names must be used here, plugins.rawQuery is not transparent to switched servers.
*****/

var country = 'NL'
var done = plugins.rawQuery.executeSQL("example_data","employees","update employees set country = ?", [country])
if (done)
{
    //flush is required when changes are made in db
    plugins.rawQuery.flushAllClientsCache("example_data","employees")
}
else
{
    var msg = plugins.rawQuery.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.
```

notifyDataChange

Boolean **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

Sample

```
/******
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Note that when server names have been switched (databaseManager.switchServer),the
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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.rawQuery.notifyDataChange(controller.getServerName(), 'employees', pksdataset,action)
```