

JSRelation

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Supported Clients

SmartClient WebClient NGClient

Constants Summary

Number

FULL_JOIN

Constant for the joinType of a JSRelation.

Number

INNER_JOIN

Constant for the joinType of a JSRelation.

Number

LEFT_OUTER_JOIN

Constant for the joinType of a JSRelation.

Number

RIGHT_OUTER_JOIN

Constant for the joinType of a JSRelation.

Property Summary

Boolean	allowCreationRelatedRecords	Flag that tells if related records can be created through this relation.
Boolean	allowParentDeleteWhenHavingRelatedRecords	Flag that tells if the parent record can be deleted while it has related records.
Boolean	deleteRelatedRecords	Flag that tells if related records should be deleted or not when a parent record is deleted.
String	foreignDataSource	Qualified name of the foreign data source.
String	initialSort	A String which specified a set of sort options for the initial sorting of data retrieved through this relation.
Number	joinType	The join type that is performed between the primary table and the foreign table.
String	name	The name of the relation.
String	primaryDataSource	Qualified name of the primary data source.

Methods Summary

Array	getRelationItems()	Returns an array of JSRelationItem objects representing the relation criteria defined for this relation.
UUID	getUUID()	Returns the UUID of the relation object
JSRelationItem	newRelationItem(dataprovider, operator, foreignColumnName)	Creates a new relation item for this relation.
void	removeRelationItem(primaryDataProviderID, operator, foreignColumnName)	Removes the desired relation item from the specified relation.

Constants Details

FULL_JOIN

Constant for the joinType of a JSRelation. It is also used in solutionModel.newRelation(...).

Returns

Number

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.joinType = JSRelation.LEFT_OUTER_JOIN;
```

INNER_JOIN

Constant for the joinType of a JSRelation. It is also used in solutionModel.newRelation(...).

Returns

Number

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.joinType = JSRelation.LEFT_OUTER_JOIN;
```

LEFT_OUTER_JOIN

Constant for the joinType of a JSRelation. It is also used in solutionModel.newRelation(...).

Returns

[Number](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.joinType = JSRelation.LEFT_OUTER_JOIN;
```

RIGHT_OUTER_JOIN

Constant for the joinType of a JSRelation. It is also used in solutionModel.newRelation(...).

Returns

[Number](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.joinType = JSRelation.LEFT_OUTER_JOIN;
```

Property Details

allowCreationRelatedRecords

Flag that tells if related records can be created through this relation.

The default value of this flag is "false".

Returns

[Boolean](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.allowCreationRelatedRecords = true;
```

allowParentDeleteWhenHavingRelatedRecords

Flag that tells if the parent record can be deleted while it has related records.

The default value of this flag is "true".

Returns

[Boolean](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.allowParentDeleteWhenHavingRelatedRecords = false;
```

deleteRelatedRecords

Flag that tells if related records should be deleted or not when a parent record is deleted.

The default value of this flag is "false".

Returns

[Boolean](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.deleteRelatedRecords = true;
```

foreignDataSource

Qualified name of the foreign data source. Contains both the name of the foreign server and the name of the foreign table.

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.primaryDataSource = 'db:/user_data/another_parent_table';
relation.foreignDataSource = 'db:/user_data/another_child_table';
```

initialSort

A String which specified a set of sort options for the initial sorting of data retrieved through this relation.

Has the form "column_name asc, another_column_name desc, ...".

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.initialSort = 'another_child_table_text asc';
```

joinType

The join type that is performed between the primary table and the foreign table. Can be "inner join" or "left outer join".

Returns

[Number](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.joinType = JSRelation.LEFT_OUTER_JOIN;
```

name

The name of the relation.

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.name = 'anotherName';
var firstTab = tabs.newTab('firstTab', 'Child Form', childForm, relation);
firstTab.relationName = relation.name;
```

primaryDataSource

Qualified name of the primary data source. Contains both the name of the primary server and the name of the primary table.

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.primaryDataSource = 'db:/user_data/another_parent_table';
relation.foreignDataSource = 'db:/user_data/another_child_table';
```

Methods Details**getRelationItems()**

Returns an array of JSRelationItem objects representing the relation criteria defined for this relation.

Returns

[Array](#) An array of JSRelationItem instances representing the relation criteria of this relation.

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var criteria = relation.getRelationItems();
for (var i=0; i<criteria.length; i++)
{
    var item = criteria[i];
    application.output('relation item no. ' + i);
    application.output('primary column: ' + item.primaryDataProviderID);
    application.output('operator: ' + item.operator);
    application.output('foreign column: ' + item.foreignColumnName);
}
```

getUUID()

Returns the UUID of the relation object

Returns

UUID

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
application.output(relation.getUUID().toString())
```

newRelationItem(dataprovider, operator, foreignColumnName)

Creates a new relation item for this relation. The primary dataprovider, the foreign data provider and one relation operators (like '=' '!=' '>' '<') must be provided.

Parameters

String dataprovider The name of the primary dataprovider.
String operator The operator used to relate the primary and the foreign dataproviders.
String foreignColumnName The name of the foreign dataprovider.

Returns

JSRelationItem A JSRelationItem instance representing the newly added relation item.

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('parentToChild', 'db:/example_data/parent_table', 'db:/example_data/child_table', JSRelation.INNER_JOIN);
relation.newRelationItem('another_parent_table_id', '=', 'another_child_table_parent_id');
// for literals use a prefix
relation.newRelationItem(JSRelationItem.LITERAL_PREFIX + "'hello'", '=', 'mytextfield');
```

removeRelationItem(primaryDataProviderID, operator, foreignColumnName)

Removes the desired relation item from the specified relation.

Parameters

String primaryDataProviderID the primary data provider (column) name
String operator the operator
String foreignColumnName the foreign column name

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var relation = solutionModel.newRelation('myRelation', 'db:/myServer/parentTable', 'db:/myServer/childTable', JSRelation.INNER_JOIN);
relation.newRelationItem('someColumn1', '=', 'someColumn2');
relation.newRelationItem('anotherColumn', '=', 'someOtherColumn');
relation.removeRelationItem('someColumn1', '=', 'someColumn2');
var criteria = relation.getRelationItems();
for (var i = 0; i < criteria.length; i++) {
    var item = criteria[i];
    application.output('primary column: ' + item.primaryDataProviderID);
    application.output('operator: ' + item.operator);
    application.output('foreign column: ' + item.foreignColumnName);
}
```