

JSRelation

For more information see [Relations](#)

Constants Summary

Number	FULL_JOIN Constant for the joinType of a Query Builder join.
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 Query Builder join.

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.

Method Summary

JSRelationItem[]	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 Query Builder join.

Returns

[Number](#)

Sample

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
/** @type {QBJoin<db:/example_data/order_details>} */
var join = query.joins.add('db:/example_data/order_details', JSRelation.RIGHT_OUTER_JOIN, 'odetail')
join.on.add(join.columns.orderid.eq(query.columns.orderid))
```

INNER_JOIN

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

Returns

[Number](#)

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;

/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
/** @type {QBJoin<db:/example_data/order_details>} */
var join = query.joins.add('db:/example_data/order_details', JSRelation.INNER_JOIN, 'odetail')
join.on.add(join.columns.orderid.eq(query.columns.orderid))
```

LEFT_OUTER_JOIN

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

Returns

[Number](#)

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;

/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
/** @type {QBJoin<db:/example_data/order_details>} */
var join = query.joins.add('db:/example_data/order_details', JSRelation.INNER_JOIN, 'odetail')
join.on.add(join.columns.orderid.eq(query.columns.orderid))
```

RIGHT_OUTER_JOIN

Constant for the joinType of a Query Builder join.

Returns

[Number](#)

Sample

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
/** @type {QBJoin<db:/example_data/order_details>} */
var join = query.joins.add('db:/example_data/order_details', JSRelation.RIGHT_OUTER_JOIN, 'odetail')
join.on.add(join.columns.orderid.eq(query.columns.orderid))
```

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](#)

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

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

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

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

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](#)**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;

/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
/** @type {QBJoin<db:/example_data/order_details>} */
var join = query.joins.add('db:/example_data/order_details', JSRelation.INNER_JOIN, 'odetail')
join.on.add(join.columns.orderid.eq(query.columns.orderid))

```

name

The name of the relation.

Returns[String](#)**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](#)**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';

```

Method Details**getRelationItems**

[JSRelationItem\[\]](#) **getRelationItems()**

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

Returns

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

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

UUID `getUUID()`

Returns the UUID of the relation object

Returns

UUID

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

JSRelationItem `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.

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

void `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

Returns

void

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);
}
```