

QBSelect



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Supported Clients

SmartClient WebClient NGClient

Property Summary

QBLogicalCondi on	and	Create an AND-condition to add conditions to.
QBCase	case	Create an case searched expression.
QBColumns	columns	Get all the columns of the datasource that can be used for this query (select or where clause)
String	comment	Specifies a comment of the query.
QBFunctions	functions	Get the functions clause from a query, used for functions that are not tied to a column.
QBGroupBy	groupBy	Get the group by clause from a query
QBLogicalCondi on	having	Get the having-part of the query, used to add conditions.
QBJoins	joins	Get the joins clause of this table based clause.
QBLogicalCondi on	or	Create an OR-condition to add conditions to.
QBParameters	params	Get the named parameters from a query.
QBTableClause	parent	Get query builder parent table clause, this may be a query or a join clause.
QBResult	result	Get the result part of the query, used to add result columns or values.
QBSelect	root	Get query builder parent.
QBSorts	sort	Get the sorting part of the query.
QBLogicalCondi on	where	Get the where-part of the query, used to add conditions.

Methods Summary

QBSelect	clearHaving()	Clear the having-part of the query.
QBCondition	exists(query)	Get an exists-condition from a subquery
QBColumn	getColumn(name)	Get a column from the table.
QBColumn	getColumn(columnTableAlias, name)	Get a column from the table with given alias.
String	getDataSource()	Returns the datasource for this.
QBParameter	getParameter(name)	Get or create a parameter for the query, this used to parameterize queries.
String	getTableAlias()	Returns the table alias for this.
Object	inline(number)	Create an inlined value.
Object	inline(number, columnForType)	Create an inlined value converted to the type of the column.
Object	inline(string)	Create an inlined (quoted) value.
QBCondition	not(cond)	Create an negated condition.
QBCondition	not(cond)	Create an negated condition.

Property Details

and
Create an AND-condition to add conditions to.

Returns

QBLogicalCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```

query.where.add(
    query.or
        .add(
            query.and
                .add(query.columns.flag.eq(1))
            .add(query.columns.order_date.isNull)
        )
        .add(
            query.and
                .add(query.columns.flag.eq(2))
                .add(query.column.order_date.gt(new Date()))
        )
);

```

case

Create an case searched expression.

Returns

[QBCase](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```

var query = datasources.db.example_data.order_details.createSelect();

// case expressions can be added to the result of the query
query.result.add(query.case.when(query.columns.quantity.ge(1000)).then('BIG').else('small'));

// they can also be used in conditions
query.where.add(query.case
    .when(query.columns.discount.gt(10)).then(50)
    .when(query.columns.quantity.le(20)).then(70)
    .else(100)
    .multiply(query.columns.unitprice).lt(10000));

```

columns

Get all the columns of the datasource that can be used for this query (select or where clause)

Returns

[QBColumns](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```

var query = foundset.getQuery();
query.result.add(query.columns.name, "name");
query.where.add(query.columns.orderdate.isNull)

```

comment

Specifies a comment of the query.

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```

var query = datasources.db.example_data.orders.createSelect();
query.comment = 'Query comment'

```

functions

Get the functions clause from a query, used for functions that are not tied to a column.

Returns

[QBFunctions](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.upper.eq(query.functions.upper('servoy')) // $NON-NLS-1$
foundset.loadRecords(query)
```

groupBy

Get the group by clause from a query

Returns

[QBGroupBy](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.groupBy.addPk() // have to group by on pk when using having-conditions in (foundset) pk queries
.root.having.add(query.joins.orders_to_order_details.columns.quantity.count.eq(0))
foundset.loadRecords(query)
```

having

Get the having-part of the query, used to add conditions.
The conditions added here are AND-ed.

Returns

[QBLogicalCondition](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.groupBy.addPk() // have to group by on pk when using having-conditions in (foundset) pk queries
.root.having.add(query.joins.orders_to_order_details.columns.quantity.count.eq(0))
foundset.loadRecords(query)
```

joins

Get the joins clause of this table based clause.
Joins added to this clause will be based on this table clauses table.

Returns

[QBJoins](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
foundset.getQuery().joins
```

or

Create an OR-condition to add conditions to.

Returns

[QBLogicalCondition](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```

query.where.add(
    query.or
    .add(
        query.and
        .add(query.columns.flag.eq(1))
        .add(query.columns.order_date.isNull)
    )
    .add(
        query.and
        .add(query.columns.flag.eq(2))
        .add(query.column.order_date.gt(new Date()))
    )
);

```

params

Get the named parameters from a query.

Returns[QBParameters](#)**Supported Clients**

SmartClient,WebClient,NGClient

Sample

```

var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.contact_id.eq(query.getParameter('mycontactid')))

// load orders where contact_id = 100
query.params['mycontactid'] = 100
foundset.loadRecords(query)

// load orders where contact_id = 200
query.params['mycontactid'] = 200
foundset.loadRecords(query)

```

parent

Get query builder parent table clause, this may be a query or a join clause.

Returns[QBTableClause](#)**Supported Clients**

SmartClient,WebClient,NGClient

Sample

```

var query = datasources.db.example_data.person.createSelect();
query.where.add(query.joins.person_to_parent.joins.person_to_parent.columns.name.eq('john'))
foundset.loadRecords(query)

```

result

Get the result part of the query, used to add result columns or values.

Returns[QBResult](#)**Supported Clients**

SmartClient,WebClient,NGClient

Sample

```

query.result.add(query.columns.company_id).add(query.columns.customerid)

```

root

Get query builder parent.

Returns

[QBSelect](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var subquery = datasources.db.example_data.order_details.createSelect();

    var query = datasources.db.example_data.orders.createSelect();
    query.where.add(query
        .or
            .add(query.columns.order_id.not.isin([1, 2, 3]))
            .add(query.exists(
                subquery.where.add(subquery.columns.orderid.eq(query.columns.order_id)).
root
            ))
        )

    foundset.loadRecords(query)
```

sort

Get the sorting part of the query.

Returns

[QBSorts](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.sort
.add(query.joins.orders_to_order_details.columns.quantity.desc)
.add(query.columns.companyid)
foundset.loadRecords(query)
```

where

Get the where-part of the query, used to add conditions.
The conditions added here are AND-ed.

Returns

[QBLogicalCondition](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = foundset.getQuery()
query.where.add(query.columns.flag.eq(1))
```

Methods Details**clearHaving()**

Clear the having-part of the query.

Returns

[QBSelect](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var q = foundset.getQuery()
q.where.add(q.columns.x.eq(100))
query.groupBy.clear.root.clearHaving()
foundset.loadRecords(q);
```

exists(query)

Get an exists-condition from a subquery

Parameters

[Object](#) query the sub query

Returns

[QBCondition](#)

Supported Clients

SmartClient, WebClient, NGClient

Sample

```
foundset.query.where.add(query.exists(query2))
```

getColumn(name)

Get a column from the table.

Parameters

[String](#) name the name of column to get

Returns

[QBColumn](#)

Supported Clients

SmartClient, WebClient, NGClient

Sample

```
foundset.getQuery().getColumn('orderid')
```

getColumn(columnTableAlias, name)

Get a column from the table with given alias.

The alias may be of the main table or any level deep joined table.

Parameters

[String](#) columnTableAlias the alias for the table

[String](#) name the name of column to get

Returns

[QBColumn](#)

Supported Clients

SmartClient, WebClient, NGClient

Sample

```
foundset.getQuery().getColumn('orderid', 'opk')
```

getDataSource()

Returns the datasource for this.

Returns

[String](#) the dataSource

Supported Clients

SmartClient, WebClient, NGClient

Sample

getParameter(name)

Get or create a parameter for the query, this used to parameterize queries.

Parameters

[String](#) name the name of the parameter

Returns

[QBParameter](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
    query.where.add(query.columns.contact_id.eq(query.getParameter('mycontactid'))))

    // load orders where contact_id = 100
    query.params['mycontactid'] = 100
    foundset.loadRecords(query)

    // load orders where contact_id = 200
    query.params['mycontactid'] = 200
    foundset.loadRecords(query)
```

getTableAlias()

Returns the table alias for this.

Returns

[String](#) the tableAlias

Supported Clients

SmartClient,WebClient,NGClient

Sample**inline(number)**

Create an inlined value. An inlined value is a value that will appear literally in the resulting sql.

For example

```
<pre>    query.where.add(query.columns.custid.eq(query.inline(200)))
```

```
</pre>
```

results in sql

```
<pre>    where custid = 200
```

```
</pre>
```

And

```
<pre>    query.where.add(query.columns.custid.eq(200))
```

```
</pre>
```

results in sql

```
<pre>    where custid = ?
```

```
</pre> with prepared statement value 200.
```

```
<p>
```

Inlined values can be used in situations where prepared statement expressions give sql problems, for example in some group-by clauses.

```
<p>
```

Note that using the same query with different inlined values effectively disables prepared statement caching for the query and may have a negative performance impact.

```
<p>
```

In case of a string will the value be validated, values that contain a single quote will not be inlined.

Parameters

[Number](#) number value to inline

Returns

[Object](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.order_details.createSelect();
var mult = query.columns.unitprice.multiply(query.inline(100, query.columns.unitprice));
query.result.add(mult);
query.result.add(query.columns.discount.max);
query.groupBy.add(mult);
```

inline(number, columnForType)

Create an inlined value converted to the type of the column.

Parameters

[Number](#) number value to inline
[QBColumn](#) columnForType convert value to type of the column

Returns

[Object](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.order_details.createSelect();
var mult = query.columns.unitprice.multiply(query.inline(100, query.columns.unitprice));
query.result.add(mult);
query.result.add(query.columns.discount.max);
query.groupBy.add(mult);
```

inline(string)

Create an inlined (quoted) value.

Parameters

[String](#) string value to inline

Returns

[Object](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.order_details.createSelect();
var mult = query.columns.unitprice.multiply(query.inline(100, query.columns.unitprice));
query.result.add(mult);
query.result.add(query.columns.discount.max);
query.groupBy.add(mult);
```

not(cond)

Create an negated condition.

Parameters

[QBCondition](#) cond the condition to negate

Returns

[QBCondition](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
foundset.query.where.add(query.not(query.columns.flag.eq(1)))
```

not(cond)

Create an negated condition.

Parameters

[QBLogicalCondition](#) cond the logical condition to negate

Returns

[QBCondition](#)

Supported Clients

SmartClient, WebClient, NGClient

Sample

```
foundset.query.where.add(query.not(query.columns.flag.eq(1)))
```