

QBFunctions



Apr 25, 2024 20:21

Supported Clients

SmartClient WebClient NGClient

Property Summary

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

Methods Summary

QBColumn	abs(value)	Create abs(column) expression
QBColumn	bit_length(value)	Create bit_length(column) expression
QBColumn	cast(value, type)	Cast using type name.
QBColumn	ceil(arg)	Create ceil(column) expression
QBColumn	coalesce(args)	Create year(date) expression
QBColumn	concat(arg1, arg2)	Create concat(args, arg2) expression
QBColumn	custom(name, args)	
QBColumn	day(arg)	Create day(date) expression
QBColumn	divide(arg1, arg2)	Create divide(args, arg2) expression
QBColumn	floor(arg)	Create floor(column) expression
QBColumn	hour(arg)	Create hour(date) expression
QBColumn	len(value)	Create length(column) expression
QBColumn	locate(string1, string2)	Create locate(str1, str2) expression
QBColumn	locate(string1, string2, start)	Create locate(str1, str2, start) expression
QBColumn	lower(value)	Create lower(column) expression
QBColumn	minus(arg1, arg2)	Create minus(args, arg2) expression
QBColumn	minute(arg)	Create minute(date) expression
QBColumn	mod(dividend, divisor)	Create mod(dividend, divisor) expression
QBColumn	month(arg)	Create month(date) expression
QBColumn	multiply(arg1, arg2)	Create multiply(args, arg2) expression
QBColumn	nullif(arg1)	Create nullif(arg1, arg2) expression
QBColumn	plus(arg1, arg2)	Create plus(args, arg2) expression
QBColumn	round(arg)	Create round(column) expression
QBColumn	round(arg, decimals)	Create round(column) expression
QBColumn	second(arg)	Create second(date) expression
QBColumn	sqrt(value)	Create sqrt(column) expression
QBColumn	substring(arg, pos)	Create substring(column, pos) expression
QBColumn	substring(arg, pos, len)	Create substring(column, pos, len) expression
QBColumn	trim(value)	Create trim(column) expression
QBColumn	trim(leading_trailing_both, characters, fromKeyword, value)	Create trim([leading trailing both] [characters] from column)
QBColumn	upper(value)	Create upper(column) expression
QBColumn	year(arg)	Create year(date) expression

Property Details

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

Returns

QBSelect

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)
```

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)
```

Methods Details

abs(value)

Create abs(column) expression

Parameters

[Object](#) value;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynum.abs.eq(query.functions.abs(myval)))
foundset.loadRecords(query);
```

bit_length(value)

Create bit_length(column) expression

Parameters

[Object](#) value;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.bit_length.eq(query.functions.bit_length('Sample')))
foundset.loadRecords(query);
```

cast(value, type)

Cast using type name.

Parameters

[Object](#) value object to cast

[String](#) type type see QUERY_COLUMN_TYPES

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.result.add(query.functions.cast("22", QUERY_COLUMN_TYPES.TYPE_INTEGER)).add(query.columns.amt_discount.cast(
QUERY_COLUMN_TYPES.TYPE_STRING));
application.output(databaseManager.getDataSetByQuery(query,1).getAsHTML())
```

ceil(arg)

Create ceil(column) expression

Parameters

[Object](#) arg number object

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.ceil.eq(query.functions.ceil(myvar))
foundset.loadRecords(query);
```

coalesce(args)

Create year(date) expression

Parameters

[Array](#) args arguments to coalesce

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mycol.coalesce('defval').eq(query.functions.coalesce(myvar, 'defval'))
foundset.loadRecords(query);
```

concat(arg1, arg2)

Create concat(args, arg2) expression

Parameters

[Object](#) arg1 ;

[Object](#) arg2 ;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.udm.contacts.createSelect();
query.result.add(query.columns.name_first.concat(' ').concat(query.columns.name_last))
var ds = databaseManager.getDataSetByQuery(query, -1)
```

custom(name, args)**Parameters**

[String](#) name custom function name

[Array](#) args function arguments

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
// select myadd(freight, 500) from orders
var query = datasources.db.example_data.orders.createSelect();
query.result.add(query.functions.custom('myadd', query.columns.freight, 500));
var dataset = databaseManager.getDataSetByQuery(query, 100);
```

day(arg)

Create day(date) expression

Parameters

[Object](#) arg date object

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mydatecol.day.eq(query.functions.day(mydatevar))
foundset.loadRecords(query);
```

divide(arg1, arg2)

Create divide(args, arg2) expression

Parameters

[Object](#) arg1;

[Object](#) arg2;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.divide(2).eq(query.functions.divide(myvar, 2))
foundset.loadRecords(query);
```

floor(arg)

Create floor(column) expression

Parameters

[Object](#) arg number object

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

SmartClient, WebClient, NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.floor.eq(query.functions.floor(myvar))
foundset.loadRecords(query);
```

hour(arg)

Create hour(date) expression

Parameters[Object](#) arg date object**Returns**[QBColumn](#)**Supported Clients**

SmartClient, WebClient, NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mydatecol.hour.eq(query.functions.hour(mydatevar))
foundset.loadRecords(query);
```

len(value)

Create length(column) expression

Parameters[Object](#) value;**Returns**[QBColumn](#)**Supported Clients**

SmartClient, WebClient, NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.len.eq(query.functions.len('Sample')))
foundset.loadRecords(query);
```

locate(string1, string2)

Create locate(str1, str2) expression

Parameters[Object](#) string1 string to locate[Object](#) string2 string to search in**Returns**[QBColumn](#)**Supported Clients**

SmartClient, WebClient, NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.locate('amp').eq(query.functions.locate('amp', 'Sample')))
foundset.loadRecords(query);
```

locate(string1, string2, start)

Create `locate(str1, str2, start)` expression

Parameters

[Object](#) string1 string to locate
[Object](#) string2 string to search in
[Number](#) start start pos

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.locate('amp', 1).eq(query.functions.locate('amp', 'Sample', 1)))
foundset.loadRecords(query);
```

lower(value)

Create `lower(column)` expression

Parameters

[Object](#) value ;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.lower.eq(query.functions.lower('Sample')))
foundset.loadRecords(query);
```

minus(arg1, arg2)

Create `minus(args, arg2)` expression

Parameters

[Object](#) arg1 ;
[Object](#) arg2 ;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.minus(2).eq(query.functions.minus(myvar, 2))
foundset.loadRecords(query);
```

minute(arg)

Create `minute(date)` expression

Parameters

[Object](#) arg date object

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mydatecol.minute.eq(query.functions.minute(mydatevar))
foundset.loadRecords(query);
```

mod(dividend, divisor)

Create mod(dividend, divisor) expression

Parameters

[Object](#) dividend;
[Object](#) divisor ;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.mod(2).eq(query.functions.mod(myvar, 2))
foundset.loadRecords(query);
```

month(arg)

Create month(date) expression

Parameters

[Object](#) arg date object

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mydatecol.month.eq(query.functions.month(mydatevar))
foundset.loadRecords(query);
```

multiply(arg1, arg2)

Create multiply(args, arg2) expression

Parameters

[Object](#) arg1;
[Object](#) arg2;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.multiply(2).eq(query.functions.multiply(myvar, 2))
foundset.loadRecords(query);
```

nullif(arg1)

Create nullif(arg1, arg2) expression

Parameters

[Object](#) arg1;

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

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.nullif('none').eq(query.functions.nullif('Sample', 'none')))
foundset.loadRecords(query);
```

plus(arg1, arg2)

Create plus(args, arg2) expression

Parameters[Object](#) arg1;[Object](#) arg2;**Returns**[QBColumn](#)**Supported Clients**

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.plus(2).eq(query.functions.plus(myvar, 2)))
foundset.loadRecords(query);
```

round(arg)

Create round(column) expression

Parameters[Object](#) arg number object**Returns**[QBColumn](#)**Supported Clients**

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.round.eq(query.functions.round(myvar)))
foundset.loadRecords(query);
```

round(arg, decimals)

Create round(column) expression

Parameters[Object](#) arg number object[Number](#) decimals The number of decimal places to round number to, default 0**Returns**[QBColumn](#)**Supported Clients**

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynumcol.round.eq(query.functions.round(myvar, 1)))
foundset.loadRecords(query);
```

second(arg)

Create second(date) expression

Parameters

[Object](#) arg date object

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mydatecol.second.eq(query.functions.second(mydatevar))
foundset.loadRecords(query);
```

sqrt(value)

Create sqrt(column) expression

Parameters

[Object](#) value;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mynum.sqrt.eq(query.functions.sqrt(myval)))
foundset.loadRecords(query);
```

substring(arg, pos)

Create substring(column, pos) expression

Parameters

[Object](#) arg column name

[Number](#) pos position

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.substring(3).eq(query.functions.substring('Sample', 3)))
foundset.loadRecords(query);
```

substring(arg, pos, len)

Create substring(column, pos, len) expression

Parameters

[Object](#) arg column name

[Number](#) pos position

[Number](#) len length

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.substring(3, 2).eq(query.functions.substring('Sample', 3, 2)))
foundset.loadRecords(query);
```

trim(value)

Create trim(column) expression

Parameters

[Object](#) value;

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.shipname.trim.eq(query.functions.trim('Sample')))
foundset.loadRecords(query);
```

trim(leading_trailing_both, characters, fromKeyword, value)

Create trim([leading | trailing | both] [characters] from column)

Parameters

[String](#) leading_trailing_both 'leading', 'trailing' or 'both'

[String](#) characters characters to remove

[String](#) fromKeyword 'from'

[Object](#) value value to trim

Returns

[QBColumn](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
// show shipname but remove trailing space
query.result.add(query.functions.trim('trailing', ' ', 'from', query.columns.shipname));
foundset.loadRecords(query);
```

upper(value)

Create upper(column) expression

Parameters

[Object](#) value;

Returns

[QBColumn](#)

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('Sample')))
foundset.loadRecords(query);
```

year(arg)

Create year(date) expression

Parameters

[Object](#) arg date object

Returns

[QBColumn](#)

Supported Clients

SmartClient, WebClient, NGClient

Sample

```
var query = datasources.db.example_data.orders.createSelect();
query.where.add(query.columns.mydatecol.year.eq(query.functions.year(mydatevar))
foundset.loadRecords(query);
```