QBFunction

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Supported Clients

SmartClient WebClient NGClient

Property Summary

QBColumn	abs	Create abs(column) expression
QBSort	asc	Create an ascending sort expression
QBColumn	avg	Create an aggregate expression.
QBColumn	bit_length	Create bit_length(column) expression
QBColumn	ceil	Create ceil(column) expression
QBColumn	count	Create an aggregate expression.
QBColumn	day	Extract day from date
QBSort	desc	Create an descending sort expression
QBColumn	floor	Create floor(column) expression
QBColumn	hour	Extract hour from date
QBCondition	isNull	Compare column with null.
QBColumn	len	Create length(column) expression
QBColumn	lower	Create lower(column) expression
QBColumn	max	Create an aggregate expression.
QBColumn	min	Create an aggregate expression.
QBColumn	minute	Extract minute from date
QBColumn	month	Extract month from date
QBColumn	not	Create a negated condition.
QBTableClause	parent	Get query builder parent table clause, this may be a query or a join clause.
QBSelect	root	Get query builder parent.
QBColumn	round	Create round(column) expression
QBColumn	second	Extract second from date
QBColumn	sqrt	Create sqrt(column) expression
QBColumn	sum	Create an aggregate expression.
QBColumn	trim	Create trim(column) expression
QBColumn	upper	Create upper(column) expression
QBColumn	year	Extract year from date

Methods Summary

QBCondition	between(value1, value2)	Compare column to a range of 2 values or other columns.
QBColumn	cast(type)	Create cast(column, type) expression
QBColumn	concat(arg)	Concatename with value
QBColumn	divide(arg)	Divide by value
QBCondition	eq(value)	Compare column with a value or another column.
QBCondition	ge(value)	Compare column with a value or another column.
Number	getFlags()	The flags are a bit pattern consisting of 1 or more of the following bits: - JSColumn.
String	getTypeAsString()	Column type as a string
QBCondition	gt(value)	Compare column with a value or another column.
QBCondition	isin(query)	Compare column with subquery result.
QBCondition	isin(values)	Compare column with values.
QBCondition	isin(customQuery, args)	Compare column with custom query result.
QBCondition	le(value)	Compare column with a value or another column.
QBCondition	like(pattern)	Compare column with a value or another column.
QBCondition	like(pattern, escape)	Compare column with a value or another column.
QBColumn	locate(arg)	Create locate(arg) expression
QBColumn	locate(arg, start)	Create locate(arg, start) expression
QBCondition	lt(value)	Compare column with a value or another column.
QBColumn	minus(arg)	Subtract value
QBColumn	mod(arg)	Create mod(arg) expression
QBColumn	multiply(arg)	Multiply with value
QBColumn	nullif(arg)	Create nullif(arg) expression
QBColumn	plus(arg)	Add up value
QBColumn	substring(pos)	Create substring(pos) expression
QBColumn	substring(pos, len)	Create substring(pos, len) expression

Property Details

abs
Create abs(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.custname.abs)
```

asc
Create an ascending sort expression

Returns

QBSort

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.asc)
.add(query.columns.companyid)
foundset.loadRecords(query)
```

avg
Create an aggregate expression.

Returns

QBColumn

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.avg.eq(1))
        foundset.loadRecords(query)
```

bit_length
Create bit_length(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.custname.bit_length)
```

ceil
Create ceil(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.ceil)
```

count

Create an aggregate expression.

Returns

QBColumn

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)
```

day

Extract day from date

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mydatecol.day)
```

desc

Create an descending sort expression

Returns

QBSort

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)
```

floor

Create floor(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.floor)
```

hour

Extract hour from date

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mydatecol.hour)
```

isNull

Compare column with null.

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.isNull)
```

len

Create length(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.custname.len)
```

lower

Create lower(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.custname.lower)
```

max

Create an aggregate expression.

Returns

QBColumn

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.max(10))
        foundset.loadRecords(query)
```

min

Create an aggregate expression.

Returns

QBColumn

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.min(10))
        foundset.loadRecords(query)
```

minute

Extract minute from date

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mydatecol.minute)
```

month

Extract month from date

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mydatecol.month)
```

not

Create a negated condition.

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

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

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)
```

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)
```

round

Create round(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.round)
```

second

Extract second from date

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mydatecol.second)
```

sqrt

Create sqrt(column) expression

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.custname.sqrt)
```

sum

Create an aggregate expression.

Returns

QBColumn

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.sum(10))
        foundset.loadRecords(query)
```

trim

`Create trim(column) expression`

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.custname.trim)
```

upper

`Create upper(column) expression`

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.custname.upper)
```

year

`Extract year from date`

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mydatecol.year)
```

Methods Details

between(value1, value2)

`Compare column to a range of 2 values or other columns.`

Parameters

Object value1 ;
Object value2 ;

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.between(0, 5))
```

cast(type)

```
Create cast(column, type) expression
```

Parameters

String type string type, see QUERY_COLUMN_TYPES

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.cast(QUERY_COLUMN_TYPES.TYPE_INTEGER))
```

concat(arg)

```
Concatename with value
```

Parameters

Object arg valeu to concatenate with

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.firstname.concat(' ').concat(query.columns.lastname))
```

divide(arg)

```
Divide by value
```

Parameters

Object arg nr to divide by

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.divide(2))
```

eq(value)

```
Compare column with a value or another column.
Operator: equals
```

Parameters

Object value ;

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.eq(1))
```

ge(value)

```
Compare column with a value or another column.
Operator: greaterThanOrEqual
```

Parameters

Object value ;

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.ge(2))
```

getFlags()

```
The flags are a bit pattern consisting of 1 or more of the following bits:
 - JSColumn.UUID_COLUMN
 - JSColumn.EXCLUDED_COLUMN
 - JSColumn.TENANT_COLUMN
```

Returns

Number

Supported Clients

SmartClient,WebClient,NGClient

Sample

```

```

getTypeAsString()

```
Column type as a string
```

Returns

String

Supported Clients

SmartClient,WebClient,NGClient

Sample

```

```

gt(value)

```
Compare column with a value or another column.
Operator: greaterThan
```

Parameters

Object value ;

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.gt(0))
```

isin(query)

```
Compare column with subquery result.
```

Parameters

QBPart query subquery

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.isin(query2))
```

isin(values)

Compare column with values.

Parameters

Array values array of values

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.isin([1, 5, 99]))
```

isin(customQuery, args)

Compare column with custom query result.

Parameters

String customQuery custom query
Array args query arguments

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.ccy.isin("select ccycode from currencies c where c.category = " + query.
getTableAlias() + ".currency_category and c.flag = ?", ['T']))
```

le(value)

Compare column with a value or another column.
Operator: lessThanOrEqual

Parameters

Object value ;

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.le(2))
```

like(pattern)

Compare column with a value or another column.
Operator: like

Parameters

String pattern the string value of the pattern

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.companyname.like('Serv%'))
```

like(pattern, escape)

```
Compare column with a value or another column.
Operator: like, with escape character
```

Parameters

String pattern the string value of the pattern
Number escape the escape char

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.companyname.like('X_%', '_'))
```

locate(arg)

```
Create locate(arg) expression
```

Parameters

Object arg string to locate

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.locate('sample'))
```

locate(arg, start)

```
Create locate(arg, start) expression
```

Parameters

Object arg string to locate
Number start start pos

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.locate('sample', 5))
```

lt(value)

```
Compare column with a value or another column.
Operator: lessThan
```

Parameters

Object value ;

Returns

QBCondition

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.where.add(query.columns.flag.lt(99))
```

minus(arg)

`Subtract value`

Parameters

Object arg nr to subtract

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.minus(2))
```

mod(arg)

`Create mod(arg) expression`

Parameters

Object arg mod arg

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.mod(2))
```

multiply(arg)

`Multiply with value`

Parameters

Object arg nr to multiply with

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.multiply(2))
```

nullif(arg)

`Create nullif(arg) expression`

Parameters

Object arg object to compare

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.nullif('none'))
```

plus(arg)

Add up value

Parameters

Object arg nr to add

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.plus(2))
```

substring(pos)

Create substring(pos) expression

Parameters

Number pos ;

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.substring(3))
```

substring(pos, len)

Create substring(pos, len) expression

Parameters

Number pos ;
Number len ;

Returns

QBColumn

Supported Clients

SmartClient,WebClient,NGClient

Sample

```
query.result.add(query.columns.mycol.substring(3, 2))
```