

QBColumn

Property Summary

QBFunction	abs Create abs(column) expression
QBSort	asc Create an ascending sort expression
QBAggregate	avg Create an aggregate expression.
QBFunction	bit_length Create bit_length(column) expression
QBFunction	ceil Create ceil(column) expression
QBAggregate	count Create an aggregate expression.
QBFunction	day Extract day from date
QBSort	desc Create an descending sort expression
QBFunction	floor Create floor(column) expression
QBFunction	hour Extract hour from date
QBCondition	isNull Compare column with null.
QBFunction	len Create length(column) expression
QBFunction	lower Create lower(column) expression
QBAggregate	max Create an aggregate expression.
QBAggregate	min Create an aggregate expression.
QBFunction	minute Extract minute from date
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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.
QBFunction	round Create round(column) expression
QBFunction	second Extract second from date
QBFunction	sqrt Create sqrt(column) expression
QBAggregate	sum Create an aggregate expression.
QBFunction	trim Create trim(column) expression
QBFunction	upper Create upper(column) expression
QBFunction	year Extract year from date

Method Summary

QBCondition	between (value1, value2) Compare column to a range of 2 values or other columns.
QBFunction	cast (type) Create cast(column, type) expression
QBFunction	concat (arg) Concatenate with value

QBFunction	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.
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	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.
QBFunction	locate(arg) Create locate(arg) expression
QBFunction	locate(arg, start) Create locate(arg, start) expression
QBCondition	lt(value) Compare column with a value or another column.
QBFunction	minus(arg) Subtract value
QBFunction	mod(arg) Create mod(arg) expression
QBFunction	multiply(arg) Multiply with value
QBFunction	nullif(arg) Create nullif(arg) expression
QBFunction	plus(arg) Add up value
QBFunction	substring(pos) Create substring(pos) expression
QBFunction	substring(pos, len) Create substring(pos, len) expression

Property Details

abs

Create abs(column) expression

Returns

[QBFunction](#)

Sample

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

asc

Create an ascending sort expression

Returns

[QBSort](#)

Sample

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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[QBAggregate](#)**Sample**

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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[QBFunction](#)**Sample**

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

ceil

Create ceil(column) expression

Returns[QBFunction](#)**Sample**

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

count

Create an aggregate expression.

Returns[QBAggregate](#)**Sample**

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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[QBFunction](#)**Sample**

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

desc

Create an descending sort expression

Returns[QBSort](#)

Sample

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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

[QBFunction](#)

Sample

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

hour

Extract hour from date

Returns

[QBFunction](#)

Sample

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

isNull

Compare column with null.

Returns

[QBCondition](#)

Sample

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

len

Create length(column) expression

Returns

[QBFunction](#)

Sample

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

lower

Create lower(column) expression

Returns

[QBFunction](#)

Sample

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

max

Create an aggregate expression.

Returns[QBAggregate](#)**Sample**

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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[QBAggregate](#)**Sample**

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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[QBFunction](#)**Sample**

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

month

Extract month from date

Returns[QBFunction](#)**Sample**

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

not

Create a negated condition.

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

Sample

```
/** @type {QBSelect<db:/example_data/person>} */
var query = databaseManager.createSelect('db:/example_data/person')
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](#)

Sample

```
/** @type {QBSelect<db:/example_data/order_details>} */
var subquery = databaseManager.createSelect('db:/example_data/order_details')

/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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

[QBFunction](#)

Sample

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

second

Extract second from date

Returns

[QBFunction](#)

Sample

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

sqrt

Create sqrt(column) expression

Returns

[QBFunction](#)

Sample

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

sum

Create an aggregate expression.

Returns[QBAggregate](#)**Sample**

```
/** @type {QBSelect<db:/example_data/orders>} */
var query = databaseManager.createSelect('db:/example_data/orders')
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[QBFunction](#)**Sample**

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

upper

Create upper(column) expression

Returns[QBFunction](#)**Sample**

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

year

Extract year from date

Returns[QBFunction](#)**Sample**

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

Method Details**between**[QBCondition](#) **between** (value1, value2)

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

Parameters

```
{Object} value1
{Object} value2
```

Returns[QBCondition](#)**Sample**

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

cast[QBFunction](#) **cast** (type)

Create cast(column, type) expression

Parameters

{String} type - string type, see QUERY_COLUMN_TYPES

Returns

QBFunction

Sample

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

concat

QBFunction **concat** (arg)

Concatenate with value

Parameters

{Object} arg - value to concatenate with

Returns

QBFunction

Sample

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

divide

QBFunction **divide** (arg)

Divide by value

Parameters

{Object} arg - nr to divide by

Returns

QBFunction

Sample

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

eq

QBCondition **eq** (value)

Compare column with a value or another column.

Operator: equals

Parameters

{Object} value

Returns

QBCondition

Sample

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

ge

QBCondition **ge** (value)

Compare column with a value or another column.

Operator: greaterThanOrEqualTo

Parameters

{Object} value

Returns

QBCondition

Sample

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

gt

QBCondition **gt** (value)

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

Parameters

{Object} value

Returns

QBCondition

Sample

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

isin

QBCondition **isin** (query)

Compare column with subquery result.

Parameters

{QBPart} query - subquery

Returns

QBCondition

Sample

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

isin

QBCondition **isin** (values)

Compare column with values.

Parameters

{Object[]} values - array of values

Returns

QBCondition

Sample

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

le

QBCondition **le** (value)

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

Parameters

{Object} value

Returns

QBCondition

Sample

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

like

QBCondition **like** (pattern)

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

Parameters

{String} pattern - the string value of the pattern

Returns

QBCondition

Sample

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

like

QBCondition **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

{String} escape - the escape char

Returns

QBCondition

Sample

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

locate

QBFunction **locate** (arg)

Create locate(arg) expression

Parameters

{Object} arg - string to locate

Returns

QBFunction

Sample

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

locate

QBFunction **locate** (arg, start)

Create locate(arg, start) expression

Parameters

{Object} arg - string to locate

{Number} start - start pos

Returns

QBFunction

Sample

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

lt

QBCondition **lt** (value)

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

Parameters

{Object} value

Returns

QBCondition

Sample

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

minus**QBFunction** **minus** (arg)

Subtract value

Parameters**{Object}** arg - nr to subtract**Returns****QBFunction****Sample**

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

mod**QBFunction** **mod** (arg)

Create mod(arg) expression

Parameters**{Object}** arg - mod arg**Returns****QBFunction****Sample**

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

multiply**QBFunction** **multiply** (arg)

Multiply with value

Parameters**{Object}** arg - nr to multiply with**Returns****QBFunction****Sample**

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

nullif**QBFunction** **nullif** (arg)

Create nullif(arg) expression

Parameters**{Object}** arg - object to compare**Returns****QBFunction****Sample**

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

plus**QBFunction** **plus** (arg)

Add up value

Parameters

{Object} arg - nr to add

Returns

QBFunction

Sample

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

substring

QBFunction **substring** (pos)

Create substring(pos) expression

Parameters

{Number} pos

Returns

QBFunction

Sample

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

substring

QBFunction **substring** (pos, len)

Create substring(pos, len) expression

Parameters

{Number} pos

{Number} len

Returns

QBFunction

Sample

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