| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Query.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/management/PersistentMBean.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/QueryEval.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/Query.html)    [**NO FRAMES**](http://docs.google.com/Query.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2jxsxqh) | [METHOD](#3j2qqm3) |

## **javax.management**

Class Query

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.management.Query**

public class **Query**extends [Object](http://docs.google.com/java/lang/Object.html)

Constructs query object constraints. The static methods provided return query expressions that may be used in listing and enumerating MBeans. Individual constraint construction methods allow only appropriate types as arguments. Composition of calls can construct arbitrary nestings of constraints, as the following example illustrates:

QueryExp exp = Query.and(Query.gt(Query.attr("age"),Query.value(5)),  
 Query.match(Query.attr("name"),  
 Query.value("Smith")));

**Since:** 1.5

| **Field Summary** | |
| --- | --- |
| static int | [**DIV**](http://docs.google.com/javax/management/Query.html#DIV)            A code representing the [div(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#div(javax.management.ValueExp,%20javax.management.ValueExp)) expression. |
| static int | [**EQ**](http://docs.google.com/javax/management/Query.html#EQ)            A code representing the [eq(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#eq(javax.management.ValueExp,%20javax.management.ValueExp)) query. |
| static int | [**GE**](http://docs.google.com/javax/management/Query.html#GE)            A code representing the [geq(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#geq(javax.management.ValueExp,%20javax.management.ValueExp)) query. |
| static int | [**GT**](http://docs.google.com/javax/management/Query.html#GT)            A code representing the [gt(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#gt(javax.management.ValueExp,%20javax.management.ValueExp)) query. |
| static int | [**LE**](http://docs.google.com/javax/management/Query.html#LE)            A code representing the [leq(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#leq(javax.management.ValueExp,%20javax.management.ValueExp)) query. |
| static int | [**LT**](http://docs.google.com/javax/management/Query.html#LT)            A code representing the [lt(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#lt(javax.management.ValueExp,%20javax.management.ValueExp)) query. |
| static int | [**MINUS**](http://docs.google.com/javax/management/Query.html#MINUS)            A code representing the [minus(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#minus(javax.management.ValueExp,%20javax.management.ValueExp)) expression. |
| static int | [**PLUS**](http://docs.google.com/javax/management/Query.html#PLUS)            A code representing the [plus(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#plus(javax.management.ValueExp,%20javax.management.ValueExp)) expression. |
| static int | [**TIMES**](http://docs.google.com/javax/management/Query.html#TIMES)            A code representing the [times(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#times(javax.management.ValueExp,%20javax.management.ValueExp)) expression. |

| **Constructor Summary** | |
| --- | --- |
| [**Query**](http://docs.google.com/javax/management/Query.html#Query())()            Basic constructor. |

| **Method Summary** | |
| --- | --- |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**and**](http://docs.google.com/javax/management/Query.html#and(javax.management.QueryExp,%20javax.management.QueryExp))([QueryExp](http://docs.google.com/javax/management/QueryExp.html) q1, [QueryExp](http://docs.google.com/javax/management/QueryExp.html) q2)            Returns a query expression that is the conjunction of two other query expressions. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**anySubString**](http://docs.google.com/javax/management/Query.html#anySubString(javax.management.AttributeValueExp,%20javax.management.StringValueExp))([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a, [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)            Returns a query expression that represents a matching constraint on a string argument. |
| static [AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) | [**attr**](http://docs.google.com/javax/management/Query.html#attr(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns a new attribute expression. |
| static [AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) | [**attr**](http://docs.google.com/javax/management/Query.html#attr(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) className, [String](http://docs.google.com/java/lang/String.html) name)            Returns a new qualified attribute expression. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**between**](http://docs.google.com/javax/management/Query.html#between(javax.management.ValueExp,%20javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v3)            Returns a query expression that represents the constraint that one value is between two other values. |
| static [AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) | [**classattr**](http://docs.google.com/javax/management/Query.html#classattr())()            Returns a new class attribute expression which can be used in any Query call that expects a ValueExp. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**div**](http://docs.google.com/javax/management/Query.html#div(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)            Returns a binary expression representing the quotient of two numeric values. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**eq**](http://docs.google.com/javax/management/Query.html#eq(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)            Returns a query expression that represents an equality constraint on two values. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**finalSubString**](http://docs.google.com/javax/management/Query.html#finalSubString(javax.management.AttributeValueExp,%20javax.management.StringValueExp))([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a, [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)            Returns a query expression that represents a matching constraint on a string argument. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**geq**](http://docs.google.com/javax/management/Query.html#geq(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)            Returns a query expression that represents a "greater than or equal to" constraint on two values. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**gt**](http://docs.google.com/javax/management/Query.html#gt(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)            Returns a query expression that represents a "greater than" constraint on two values. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**in**](http://docs.google.com/javax/management/Query.html#in(javax.management.ValueExp,%20javax.management.ValueExp%5B%5D))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) val, [ValueExp](http://docs.google.com/javax/management/ValueExp.html)[] valueList)            Returns an expression constraining a value to be one of an explicit list. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**initialSubString**](http://docs.google.com/javax/management/Query.html#initialSubString(javax.management.AttributeValueExp,%20javax.management.StringValueExp))([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a, [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)            Returns a query expression that represents a matching constraint on a string argument. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**isInstanceOf**](http://docs.google.com/javax/management/Query.html#isInstanceOf(javax.management.StringValueExp))([StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) classNameValue)            Returns a query expression that represents an inheritance constraint on an MBean class. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**leq**](http://docs.google.com/javax/management/Query.html#leq(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)            Returns a query expression that represents a "less than or equal to" constraint on two values. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**lt**](http://docs.google.com/javax/management/Query.html#lt(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)            Returns a query expression that represents a "less than" constraint on two values. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**match**](http://docs.google.com/javax/management/Query.html#match(javax.management.AttributeValueExp,%20javax.management.StringValueExp))([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a, [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)            Returns a query expression that represents a matching constraint on a string argument. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**minus**](http://docs.google.com/javax/management/Query.html#minus(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)            Returns a binary expression representing the difference between two numeric values. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**not**](http://docs.google.com/javax/management/Query.html#not(javax.management.QueryExp))([QueryExp](http://docs.google.com/javax/management/QueryExp.html) queryExp)            Returns a constraint that is the negation of its argument. |
| static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) | [**or**](http://docs.google.com/javax/management/Query.html#or(javax.management.QueryExp,%20javax.management.QueryExp))([QueryExp](http://docs.google.com/javax/management/QueryExp.html) q1, [QueryExp](http://docs.google.com/javax/management/QueryExp.html) q2)            Returns a query expression that is the disjunction of two other query expressions. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**plus**](http://docs.google.com/javax/management/Query.html#plus(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)            Returns a binary expression representing the sum of two numeric values, or the concatenation of two string values. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**times**](http://docs.google.com/javax/management/Query.html#times(javax.management.ValueExp,%20javax.management.ValueExp))([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1, [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)            Returns a binary expression representing the product of two numeric values. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**value**](http://docs.google.com/javax/management/Query.html#value(boolean))(boolean val)            Returns a boolean value expression that can be used in any Query call that expects a ValueExp. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**value**](http://docs.google.com/javax/management/Query.html#value(double))(double val)            Returns a numeric value expression that can be used in any Query call that expects a ValueExp. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**value**](http://docs.google.com/javax/management/Query.html#value(float))(float val)            Returns a numeric value expression that can be used in any Query call that expects a ValueExp. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**value**](http://docs.google.com/javax/management/Query.html#value(int))(int val)            Returns a numeric value expression that can be used in any Query call that expects a ValueExp. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**value**](http://docs.google.com/javax/management/Query.html#value(long))(long val)            Returns a numeric value expression that can be used in any Query call that expects a ValueExp. |
| static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) | [**value**](http://docs.google.com/javax/management/Query.html#value(java.lang.Number))([Number](http://docs.google.com/java/lang/Number.html) val)            Returns a numeric value expression that can be used in any Query call that expects a ValueExp. |
| static [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) | [**value**](http://docs.google.com/javax/management/Query.html#value(java.lang.String))([String](http://docs.google.com/java/lang/String.html) val)            Returns a new string expression. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Field Detail** |
| --- |

### GT

public static final int **GT**

A code representing the [gt(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#gt(javax.management.ValueExp,%20javax.management.ValueExp)) query. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.GT)

### LT

public static final int **LT**

A code representing the [lt(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#lt(javax.management.ValueExp,%20javax.management.ValueExp)) query. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.LT)

### GE

public static final int **GE**

A code representing the [geq(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#geq(javax.management.ValueExp,%20javax.management.ValueExp)) query. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.GE)

### LE

public static final int **LE**

A code representing the [leq(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#leq(javax.management.ValueExp,%20javax.management.ValueExp)) query. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.LE)

### EQ

public static final int **EQ**

A code representing the [eq(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#eq(javax.management.ValueExp,%20javax.management.ValueExp)) query. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.EQ)

### PLUS

public static final int **PLUS**

A code representing the [plus(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#plus(javax.management.ValueExp,%20javax.management.ValueExp)) expression. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.PLUS)

### MINUS

public static final int **MINUS**

A code representing the [minus(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#minus(javax.management.ValueExp,%20javax.management.ValueExp)) expression. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.MINUS)

### TIMES

public static final int **TIMES**

A code representing the [times(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#times(javax.management.ValueExp,%20javax.management.ValueExp)) expression. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.TIMES)

### DIV

public static final int **DIV**

A code representing the [div(javax.management.ValueExp, javax.management.ValueExp)](http://docs.google.com/javax/management/Query.html#div(javax.management.ValueExp,%20javax.management.ValueExp)) expression. This is chiefly of interest for the serialized form of queries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.management.Query.DIV)

| **Constructor Detail** |
| --- |

### Query

public **Query**()

Basic constructor.

| **Method Detail** |
| --- |

### and

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **and**([QueryExp](http://docs.google.com/javax/management/QueryExp.html) q1,  
 [QueryExp](http://docs.google.com/javax/management/QueryExp.html) q2)

Returns a query expression that is the conjunction of two other query expressions.

**Parameters:**q1 - A query expression.q2 - Another query expression. **Returns:**The conjunction of the two arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.AndQueryExp](http://docs.google.com/serialized-form.html#javax.management.AndQueryExp).

### or

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **or**([QueryExp](http://docs.google.com/javax/management/QueryExp.html) q1,  
 [QueryExp](http://docs.google.com/javax/management/QueryExp.html) q2)

Returns a query expression that is the disjunction of two other query expressions.

**Parameters:**q1 - A query expression.q2 - Another query expression. **Returns:**The disjunction of the two arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.OrQueryExp](http://docs.google.com/serialized-form.html#javax.management.OrQueryExp).

### gt

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **gt**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)

Returns a query expression that represents a "greater than" constraint on two values.

**Parameters:**v1 - A value expression.v2 - Another value expression. **Returns:**A "greater than" constraint on the arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryRelQueryExp](http://docs.google.com/serialized-form.html#javax.management.BinaryRelQueryExp) with a relOp equal to [GT](http://docs.google.com/javax/management/Query.html#GT).

### geq

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **geq**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)

Returns a query expression that represents a "greater than or equal to" constraint on two values.

**Parameters:**v1 - A value expression.v2 - Another value expression. **Returns:**A "greater than or equal to" constraint on the arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryRelQueryExp](http://docs.google.com/serialized-form.html#javax.management.BinaryRelQueryExp) with a relOp equal to [GE](http://docs.google.com/javax/management/Query.html#GE).

### leq

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **leq**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)

Returns a query expression that represents a "less than or equal to" constraint on two values.

**Parameters:**v1 - A value expression.v2 - Another value expression. **Returns:**A "less than or equal to" constraint on the arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryRelQueryExp](http://docs.google.com/serialized-form.html#javax.management.BinaryRelQueryExp) with a relOp equal to [LE](http://docs.google.com/javax/management/Query.html#LE).

### lt

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **lt**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)

Returns a query expression that represents a "less than" constraint on two values.

**Parameters:**v1 - A value expression.v2 - Another value expression. **Returns:**A "less than" constraint on the arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryRelQueryExp](http://docs.google.com/serialized-form.html#javax.management.BinaryRelQueryExp) with a relOp equal to [LT](http://docs.google.com/javax/management/Query.html#LT).

### eq

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **eq**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2)

Returns a query expression that represents an equality constraint on two values.

**Parameters:**v1 - A value expression.v2 - Another value expression. **Returns:**A "equal to" constraint on the arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryRelQueryExp](http://docs.google.com/serialized-form.html#javax.management.BinaryRelQueryExp) with a relOp equal to [EQ](http://docs.google.com/javax/management/Query.html#EQ).

### between

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **between**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) v1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v2,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) v3)

Returns a query expression that represents the constraint that one value is between two other values.

**Parameters:**v1 - A value expression that is "between" v2 and v3.v2 - Value expression that represents a boundary of the constraint.v3 - Value expression that represents a boundary of the constraint. **Returns:**The constraint that v1 lies between v2 and v3. The returned object will be serialized as an instance of the non-public class  [javax.management.BetweenQueryExp](http://docs.google.com/serialized-form.html#javax.management.BetweenQueryExp).

### match

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **match**([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a,  
 [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)

Returns a query expression that represents a matching constraint on a string argument. The matching syntax is consistent with file globbing: supports "?", "\*", "[", each of which may be escaped with "\"; character classes may use "!" for negation and "-" for range. (\* for any character sequence, ? for a single arbitrary character, [...] for a character sequence). For example: a\*b?c would match a string starting with the character a, followed by any number of characters, followed by a b, any single character, and a c.

**Parameters:**a - An attribute expressions - A string value expression representing a matching constraint **Returns:**A query expression that represents the matching constraint on the string argument. The returned object will be serialized as an instance of the non-public class  [javax.management.MatchQueryExp](http://docs.google.com/serialized-form.html#javax.management.MatchQueryExp).

### attr

public static [AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) **attr**([String](http://docs.google.com/java/lang/String.html) name)

Returns a new attribute expression.

Evaluating this expression for a given objectName includes performing [MBeanServer.getAttribute(objectName, name)](http://docs.google.com/javax/management/MBeanServer.html#getAttribute(javax.management.ObjectName,%20java.lang.String)).

**Parameters:**name - The name of the attribute. **Returns:**An attribute expression for the attribute named name.

### attr

public static [AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) **attr**([String](http://docs.google.com/java/lang/String.html) className,  
 [String](http://docs.google.com/java/lang/String.html) name)

Returns a new qualified attribute expression.

Evaluating this expression for a given objectName includes performing [MBeanServer.getObjectInstance(objectName)](http://docs.google.com/javax/management/MBeanServer.html#getObjectInstance(javax.management.ObjectName)) and [MBeanServer.getAttribute(objectName, name)](http://docs.google.com/javax/management/MBeanServer.html#getAttribute(javax.management.ObjectName,%20java.lang.String)).

**Parameters:**className - The name of the class possessing the attribute.name - The name of the attribute. **Returns:**An attribute expression for the attribute named name. The returned object will be serialized as an instance of the non-public class  [javax.management.QualifiedAttributeValueExp](http://docs.google.com/serialized-form.html#javax.management.QualifiedAttributeValueExp).

### classattr

public static [AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) **classattr**()

Returns a new class attribute expression which can be used in any Query call that expects a ValueExp.

Evaluating this expression for a given objectName includes performing [MBeanServer.getObjectInstance(objectName)](http://docs.google.com/javax/management/MBeanServer.html#getObjectInstance(javax.management.ObjectName)).

**Returns:**A class attribute expression. The returned object will be serialized as an instance of the non-public class  [javax.management.ClassAttributeValueExp](http://docs.google.com/serialized-form.html#javax.management.ClassAttributeValueExp).

### not

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **not**([QueryExp](http://docs.google.com/javax/management/QueryExp.html) queryExp)

Returns a constraint that is the negation of its argument.

**Parameters:**queryExp - The constraint to negate. **Returns:**A negated constraint. The returned object will be serialized as an instance of the non-public class  [javax.management.NotQueryExp](http://docs.google.com/serialized-form.html#javax.management.NotQueryExp).

### in

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **in**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) val,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html)[] valueList)

Returns an expression constraining a value to be one of an explicit list.

**Parameters:**val - A value to be constrained.valueList - An array of ValueExps. **Returns:**A QueryExp that represents the constraint. The returned object will be serialized as an instance of the non-public class  [javax.management.InQueryExp](http://docs.google.com/serialized-form.html#javax.management.InQueryExp).

### value

public static [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) **value**([String](http://docs.google.com/java/lang/String.html) val)

Returns a new string expression.

**Parameters:**val - The string value. **Returns:**A ValueExp object containing the string argument.

### value

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **value**([Number](http://docs.google.com/java/lang/Number.html) val)

Returns a numeric value expression that can be used in any Query call that expects a ValueExp.

**Parameters:**val - An instance of Number. **Returns:**A ValueExp object containing the argument. The returned object will be serialized as an instance of the non-public class  [javax.management.NumericValueExp](http://docs.google.com/serialized-form.html#javax.management.NumericValueExp).

### value

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **value**(int val)

Returns a numeric value expression that can be used in any Query call that expects a ValueExp.

**Parameters:**val - An int value. **Returns:**A ValueExp object containing the argument. The returned object will be serialized as an instance of the non-public class  [javax.management.NumericValueExp](http://docs.google.com/serialized-form.html#javax.management.NumericValueExp).

### value

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **value**(long val)

Returns a numeric value expression that can be used in any Query call that expects a ValueExp.

**Parameters:**val - A long value. **Returns:**A ValueExp object containing the argument. The returned object will be serialized as an instance of the non-public class  [javax.management.NumericValueExp](http://docs.google.com/serialized-form.html#javax.management.NumericValueExp).

### value

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **value**(float val)

Returns a numeric value expression that can be used in any Query call that expects a ValueExp.

**Parameters:**val - A float value. **Returns:**A ValueExp object containing the argument. The returned object will be serialized as an instance of the non-public class  [javax.management.NumericValueExp](http://docs.google.com/serialized-form.html#javax.management.NumericValueExp).

### value

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **value**(double val)

Returns a numeric value expression that can be used in any Query call that expects a ValueExp.

**Parameters:**val - A double value. **Returns:**A ValueExp object containing the argument. The returned object will be serialized as an instance of the non-public class  [javax.management.NumericValueExp](http://docs.google.com/serialized-form.html#javax.management.NumericValueExp).

### value

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **value**(boolean val)

Returns a boolean value expression that can be used in any Query call that expects a ValueExp.

**Parameters:**val - A boolean value. **Returns:**A ValueExp object containing the argument. The returned object will be serialized as an instance of the non-public class  [javax.management.BooleanValueExp](http://docs.google.com/serialized-form.html#javax.management.BooleanValueExp).

### plus

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **plus**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)

Returns a binary expression representing the sum of two numeric values, or the concatenation of two string values.

**Parameters:**value1 - The first '+' operand.value2 - The second '+' operand. **Returns:**A ValueExp representing the sum or concatenation of the two arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryOpValueExp](http://docs.google.com/serialized-form.html#javax.management.BinaryOpValueExp) with an op equal to [PLUS](http://docs.google.com/javax/management/Query.html#PLUS).

### times

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **times**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)

Returns a binary expression representing the product of two numeric values.

**Parameters:**value1 - The first '\*' operand.value2 - The second '\*' operand. **Returns:**A ValueExp representing the product. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryOpValueExp](http://docs.google.com/serialized-form.html#javax.management.BinaryOpValueExp) with an op equal to [TIMES](http://docs.google.com/javax/management/Query.html#TIMES).

### minus

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **minus**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)

Returns a binary expression representing the difference between two numeric values.

**Parameters:**value1 - The first '-' operand.value2 - The second '-' operand. **Returns:**A ValueExp representing the difference between two arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryOpValueExp](http://docs.google.com/serialized-form.html#javax.management.BinaryOpValueExp) with an op equal to [MINUS](http://docs.google.com/javax/management/Query.html#MINUS).

### div

public static [ValueExp](http://docs.google.com/javax/management/ValueExp.html) **div**([ValueExp](http://docs.google.com/javax/management/ValueExp.html) value1,  
 [ValueExp](http://docs.google.com/javax/management/ValueExp.html) value2)

Returns a binary expression representing the quotient of two numeric values.

**Parameters:**value1 - The first '/' operand.value2 - The second '/' operand. **Returns:**A ValueExp representing the quotient of two arguments. The returned object will be serialized as an instance of the non-public class  [javax.management.BinaryOpValueExp](http://docs.google.com/serialized-form.html#javax.management.BinaryOpValueExp) with an op equal to [DIV](http://docs.google.com/javax/management/Query.html#DIV).

### initialSubString

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **initialSubString**([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a,  
 [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)

Returns a query expression that represents a matching constraint on a string argument. The value must start with the given literal string value.

**Parameters:**a - An attribute expression.s - A string value expression representing the beginning of the string value. **Returns:**The constraint that a matches s. The returned object will be serialized as an instance of the non-public class  [javax.management.MatchQueryExp](http://docs.google.com/serialized-form.html#javax.management.MatchQueryExp).

### anySubString

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **anySubString**([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a,  
 [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)

Returns a query expression that represents a matching constraint on a string argument. The value must contain the given literal string value.

**Parameters:**a - An attribute expression.s - A string value expression representing the substring. **Returns:**The constraint that a matches s. The returned object will be serialized as an instance of the non-public class  [javax.management.MatchQueryExp](http://docs.google.com/serialized-form.html#javax.management.MatchQueryExp).

### finalSubString

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **finalSubString**([AttributeValueExp](http://docs.google.com/javax/management/AttributeValueExp.html) a,  
 [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) s)

Returns a query expression that represents a matching constraint on a string argument. The value must end with the given literal string value.

**Parameters:**a - An attribute expression.s - A string value expression representing the end of the string value. **Returns:**The constraint that a matches s. The returned object will be serialized as an instance of the non-public class  [javax.management.MatchQueryExp](http://docs.google.com/serialized-form.html#javax.management.MatchQueryExp).

### isInstanceOf

public static [QueryExp](http://docs.google.com/javax/management/QueryExp.html) **isInstanceOf**([StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) classNameValue)

Returns a query expression that represents an inheritance constraint on an MBean class.

Example: to find MBeans that are instances of [NotificationBroadcaster](http://docs.google.com/javax/management/NotificationBroadcaster.html), use Query.isInstanceOf(Query.value(NotificationBroadcaster.class.getName())).

Evaluating this expression for a given objectName includes performing [MBeanServer.isInstanceOf(objectName, ((StringValueExp)classNameValue.apply(objectName)).getValue()](http://docs.google.com/javax/management/MBeanServer.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String)).

**Parameters:**classNameValue - The [StringValueExp](http://docs.google.com/javax/management/StringValueExp.html) returning the name of the class of which selected MBeans should be instances. **Returns:**a query expression that represents an inheritance constraint on an MBean class. The returned object will be serialized as an instance of the non-public class  [javax.management.InstanceOfQueryExp](http://docs.google.com/serialized-form.html#javax.management.InstanceOfQueryExp).**Since:** 1.6

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Query.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/management/PersistentMBean.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/QueryEval.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/Query.html)    [**NO FRAMES**](http://docs.google.com/Query.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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