
EOKeyValueQualifier

Inherits From:	EOQualifier : NSObject
Conforms To:	EOQualifierEvaluation EOQualifierSQLGeneration
Declared In:	EOControl/EOQualifier.h

Class Description

EOKeyValueQualifier is a subclass of EOQualifier that compares a named property of an object with a supplied value, for example, “salary > 1500”. EOKeyValueQualifier adopts the EOQualifierEvaluation protocol, which defines the method **evaluateWithObject:** for in-memory evaluation. When an EOKeyValueQualifier object receives an **evaluateWithObject:** message, it evaluates the given object to determine if it satisfies the qualifier criteria.

In addition to performing in-memory filtering, EOKeyValueQualifier can be used to generate SQL. When it’s used for this purpose, the key should be a valid property name of the root entity for the qualifier (or a valid key path).

Adopted Protocols

EOQualifierEvaluation	– evaluateWithObject:
EOQualifierSQLGeneration	– sqlStringForSQLExpression: – schemaBasedQualifierWithRootEntity:

Method Types

Initializing an EOKeyValueQualifier – initWithKey:operatorSelector:value:

Returning information about an EOKeyValueQualifier

- selector
- key
- value

Instance Methods

evaluateWithObject:

@protocol EOQualifierEvaluation
– (BOOL)**evaluateWithObject:***anObject*

Returns YES if the object *anObject* satisfies the qualifier, NO otherwise. When an EOKeyValueQualifier object receives the **evaluateWithObject:** message, it evaluates *object* to determine if it meets the qualifier criteria. This method can raise one of several possible exceptions if an error occurs. If your application allows users to construct arbitrary qualifiers (such as through a user interface), you may want to put exception handlers around this method to properly respond to errors (for example, by displaying a panel saying that the user typed a poorly formed qualifier).

initWithKey:operatorSelector:value:

– **initWithKey:**(NSString *)*key* **operatorSelector:**(SEL)*selector* **value:**(id)*value*

Initializes the receiver to compare values for *key* to *value* using the operator selector *selector*. The possible values for *selector* are as follows:

- EOQualifierOperatorEqual
- EOQualifierOperatorNotEqual
- EOQualifierOperatorLessThan
- EOQualifierOperatorGreaterThan
- EOQualifierOperatorLessThanOrEqualTo
- EOQualifierOperatorGreaterThanOrEqualTo
- EOQualifierOperatorLike

Enterprise Objects Framework supports SQL generation for these selectors only.

For example, the following excerpt creates an EOKeyValueQualifier **qual** that has the key "name", the operator selector EOQualifierOperatorEqual, and the value "Smith". Once constructed, the qualifier **qual** is used to filter an in-memory array.

```
NSArray *employees;    /* Assume this exists. */
EOQualifier *qual = [[EOKeyValueQualifier alloc] initWithKey:@"name"
                    operatorSelector:EOQualifierOperatorEqual
                    value:@"Smith"];
return [employees filteredArrayUsingQualifier:qual];
```

key

– (NSString *)**key**

Returns the receiver's key.

selector

– (SEL)**selector**

Returns the receiver's selector.

value

– (id)**value**

Returns the receiver's value.