

Expressions containing user variables or variables local to stored programs must otherwise (except for notation) conform to the rules for XPath expressions containing variables as given in the XPath 1.0 specification.



Note

A user variable used to store an XPath expression is treated as an empty string. Because of this, it is not possible to store an XPath expression as a user variable. (Bug #32911)

- `ExtractValue(xml_frag, xpath_expr)`

`ExtractValue()` takes two string arguments, a fragment of XML markup *xml_frag* and an XPath expression *xpath_expr* (also known as a *locator*); it returns the text (CDATA) of the first text node which is a child of the element or elements matched by the XPath expression.

Using this function is the equivalent of performing a match using the *xpath_expr* after appending `/text()`. In other words, `ExtractValue('<a>Sakila', '/a/b')` and `ExtractValue('<a>Sakila', '/a/b/text()')` produce the same result.

If multiple matches are found, the content of the first child text node of each matching element is returned (in the order matched) as a single, space-delimited string.

If no matching text node is found for the expression (including the implicit `/text()`)—for whatever reason, as long as *xpath_expr* is valid, and *xml_frag* consists of elements which are properly nested and closed—an empty string is returned. No distinction is made between a match on an empty element and no match at all. This is by design.

If you need to determine whether no matching element was found in *xml_frag* or such an element was found but contained no child text nodes, you should test the result of an expression that uses the XPath `count()` function. For example, both of these statements return an empty string, as shown here:

```
mysql> SELECT ExtractValue('<a><b/></a>', '/a/b');
+-----+
| ExtractValue('<a><b/></a>', '/a/b') |
+-----+
|                                     |
+-----+
1 row in set (0.00 sec)

mysql> SELECT ExtractValue('<a><c/></a>', '/a/b');
+-----+
| ExtractValue('<a><c/></a>', '/a/b') |
+-----+
|                                     |
+-----+
1 row in set (0.00 sec)
```

However, you can determine whether there was actually a matching element using the following:

```
mysql> SELECT ExtractValue('<a><b/></a>', 'count(/a/b)');
+-----+
| ExtractValue('<a><b/></a>', 'count(/a/b)') |
+-----+
| 1                                           |
+-----+
1 row in set (0.00 sec)

mysql> SELECT ExtractValue('<a><c/></a>', 'count(/a/b)');
+-----+
| ExtractValue('<a><c/></a>', 'count(/a/b)') |
+-----+
```