

XQUERY - CUSTOM FUNCTIONS

http://www.tutorialspoint.com/xquery/xquery_custom_functions.htm

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XQuery provides the capability to write custom functions. Listed below are the guidelines to create a custom function.

- Use the keyword **declare function** to define a function.
- Use the data types defined in the current XML Schema
- Enclose the body of function inside curly braces.
- Prefix the name of the function with an XML namespace.

The following syntax is used while creating a custom function.

Syntax

```
declare function prefix:function_name($parameter as datatype?...)  
as returnDatatype?  
{  
    function body...  
};
```

Example

The following example shows how to create a user-defined function in XQuery.

XQuery Expression

```
declare function local:discount($price as xs:decimal?,$percentDiscount as xs:decimal?)  
as xs:decimal? {  
    let $discount := $price - ($price * $percentDiscount div 100)  
    return $discount  
};  
  
let $originalPrice := 100  
let $discountAvailed := 10  
return ( local:discount($originalPrice, $discountAvailed))
```

Output

```
90
```

Verify the Result

To verify the result, replace the contents of *books.xqy* (given in the [Environment Setup](#) chapter) with the above XQuery expression and execute the XQueryTester java program.