

XQUERY - SEQUENCES

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

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Sequences represent an ordered collection of items where items can be of similar or of different types.

Creating a Sequence

Sequences are created using parenthesis with strings inside quotes or double quotes and numbers as such. XML elements can also be used as the items of a sequence.

XQuery Expression

```
let $items := ('orange', <apple/>, <fruit type="juicy"/>, <vehicle
type="car">sentro</vehicle>, 1,2,3, 'a', 'b', "abc")
let $count := count($items)
return
<result>
  <count>{$count}</count>

  <items>
    {
      for $item in $items
      return <item>{$item}</item>
    }
  </items>

</result>
```

Output

```
<result>
  <count>10</count>
  <items>
    <item>orange</item>
    <item>
      <apple/>
    </item>
    <item>
      <fruit type="juicy"/>
    </item>
    <item>
      <vehicle type="car">Sentro</vehicle>
    </item>
    <item>1</item>
    <item>2</item>
    <item>3</item>
    <item>a</item>
    <item>b</item>
    <item>abc</item>
  </items>
</result>
```

Viewing the Items of a Sequence

Items of a sequence can be iterated one by one, using index or by value. The above example iterated the items of a sequence one by one. Let's see the other two ways in action.

XQuery Expression *Index*

```
let $items := (1,2,3,4,5,6)
let $count := count($items)
```

```

return
  <result>
    <count>{$count}</count>

    <items>
    {
      for $item in $items[2]
      return <item>{$item}</item>
    }
  </items>

</result>

```

Output

```

<result>
  <count>6</count>
  <items>
    <item>2</item>
  </items>
</result>

```

XQuery Expression Value

```

let $items := (1,2,3,4,5,6)
let $count := count($items)
return
  <result>
    <count>{$count}</count>

    <items>
    {
      for $item in $items[. = (1,2,3)]
      return <item>{$item}</item>
    }
  </items>

</result>

```

Output

```

<result>
  <count>6</count>
  <items>
    <item>1</item>
    <item>2</item>
    <item>3</item>
  </items>
</result>

```

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