XQuery, Part IV User-Defined Functions

## **Function Declarations**

User defined functions in XQuery are declared as follows:

```
declare function <namespace>:<name> ( <ArgumentList>) as <ReturnType>
  {
    <FunctionBody>
    };
```

Here,

- <namespace>:<name> is the full name of the function. Use local as namespace to produce a local function.
- <argumentList> consists of zero or more argument declarations. Each declaration has the following format:

```
<VarName> as <Type>
```

<Type> is either a built-in atomic type (e.g., xs:decimal), or an item
(item()) or a node (node(), element(), etc...). Type modifiers +, ?, \*
are allowed to indicate a sequence of one or more, zero or one and zero or
more items respectively.

Same rules apply to <ReturnType>.

• <FunctionBody> is an XQuery expression which can use function arguments as variables and which must return a value of the designated return type.

## Example.