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I10-003

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QUESTION: 34
See separate window.

```
[example.xml]
<example>
  <record date="2007-05-15">
    <data condition="bad">50</data>
    <data condition="bad">80</data>
    <data condition="good">250</data>
  </record>
  <record date="2007-05-16">
    <data condition="bad">60</data>
    <data condition="good">90</data>
    <data condition="good">150</data>
  </record>
</example>

[XQuery]
<result>{
  for $record in fn:doc("example.xml")/example/record
  where $record/data[@condition = "good"] and $record/data[. <= 100]
  return
    $record
}</result>
```

Assume you wish to execute a query on [example xml] (separate window) to obtain a record element that includes a data element for which the condition attribute value is "good," and for which the element value is 100 or less. Select the correct result of executing the [XQuery] (separate window). The expected result would be "C;" however, the query may not be processed as expected.

A. <result/>
B. <result>
<record date="2007-05-15">
<data condition="bad">50</data>
<data condition="bad">80</data>
<data condition="good">250</data>
</record>
</result>
C. <result>
<recorddate="2007-05-16">
<data condition="bad">60</data>
<data condition="good">90</data>
<datacondition="good">150</data>
</record>

</result>
D. <result>
<recorddate="2007-05-15">
<data condition="bad">50</data>
<data condition="bad">80</data>
<datacondition="good">250</data>
</record>
<recorddate="2007-05-16">
<data condition="bad">60</data>
<data condition="good">90</data>
<data condition="good"> 150</data>
</record>
</result>

Answer: D

QUESTION: 35
See separate window.

```
[PRODUCTS.xml]
<PRODUCTS>
 <record>
  <PID>C001</PID>
  <PRODUCT>Chair</PRODUCT>
  <PRICE>6000</PRICE>
 </record>
 <record>
  <PID>T001</PID>
  <PRODUCT>Table</PRODUCT>
  <PRICE>20000</PRICE>
 </record>
</PRODUCTS>

[STOCKLIST.xml]
<STOCKLIST>
 <record>
  <STOCKROOM>Yokohama</STOCKROOM>
  <PID>C001</PID>
  <QUANTITY>10</QUANTITY>
 </record>
 <record>
  <STOCKROOM>Yokohama</STOCKROOM>
  <PID>T001</PID>
  <QUANTITY>3</QUANTITY>
 </record>
 <record>
```

```
  <STOCKROOM>Yokohama</STOCKROOM>
  <PID>T001</PID>
  <QUANTITY>3</QUANTITY>
 </record>
 <record>
  <STOCKROOM>Kawasaki</STOCKROOM>
  <PID>T001</PID>
  <QUANTITY>1</QUANTITY>
 </record>
</STOCKLIST>
```

[Output Result]

```
<result>
 <record>
  <PID>C001</PID>
  <PRODUCT>Chair</PRODUCT>
  <PRICE>6000</PRICE>
  <QUANTITY>10</QUANTITY>
 </record>
 <record>
  <STOCKROOM>Kawasaki</STOCKROOM>
  <PID>T001</PID>
  <QUANTITY>1</QUANTITY>
 </record>
</STOCKLIST>
```

[Output Result]

```
<result>
 <record>
  <PID>C001</PID>
  <PRODUCT>Chair</PRODUCT>
  <PRICE>6000</PRICE>
  <QUANTITY>10</QUANTITY>
 </record>
 <record>
  <PID>T001</PID>
```

```
    <PRODUCT>Table</PRODUCT>
    <PRICE>20000</PRICE>
    <QUANTITY>4</QUANTITY>
  </record>
</result>
```

[PRODUCTS xml] (separate window) and [STOCKLIST.xml] (separate window) are output in XML format from RDB (relational database) data. Assume that you wish to use an XOuery processor to get [Output Result] (separate window) from this XML data. Which of the following is an XOuery that cannot retrieve [Output Result]?

A.
```
element result {
 let $PRODUCTS := fn:doc("PRODUCTS.xml")/PRODUCTS,
    $STOCKLIST := fn:doc("STOCKLIST.xml")/STOCKLIST
 for $item in $PRODUCTS/record
 return
  element record {
   element PID {fn:string($item/PID)},
   element PRODUCT {fn:string($item/PRODUCT)},
   element PRICE {fn:string($item/PRICE)},
   element QUANTITY {fn:sum($STOCKLIST/record[PID = $item/PID]/QUANTITY)}
  }
}
```

B.
```
<result>{
 let $PRODUCTS := fn:doc("PRODUCTS.xml")/PRODUCTS,
    $STOCKLIST := fn:doc("STOCKLIST.xml")/STOCKLIST
 for $item in $PRODUCTS/record
 return
  element record {
   element PID {fn:string($item/PID)},
   element PRODUCT {fn:string($item/PRODUCT)},
   element PRICE {fn:string($item/PRICE)},
   element QUANTITY {fn:sum($STOCKLIST/record[PID = $item/PID]/QUANTITY)}
  }
}</result>
```

C.
```
<result>{
  let $PRODUCTS := fn:doc("PRODUCTS.xml")/PRODUCTS,
    $STOCKLIST := fn:doc("STOCKLIST.xml")/STOCKLIST
  for $item in $PRODUCTS/record
  return
   <record>{
    element PID {fn:string($item/PID)},
    element PRODUCT {fn:string($item/PRODUCT)},
    element PRICE {fn:string($item/PRICE)},
    element QUANTITY {fn:sum($STOCKLIST/record[PID = $item/PID]/QUANTITY)}
   }</record>
}</result>
```

D.
```
<result>{
  let $PRODUCTS := fn:doc("PRODUCTS.xml")/PRODUCTS,
    $STOCKLIST := fn:doc("STOCKLIST.xml")/STOCKLIST
  for $item in $PRODUCTS/record
  return
   <record>
    <PID>{fn:string($item/PID)}</PID>,
    <PRODUCT>{fn:string($item/PRODUCT)}</PRODUCT>,
    <PRICE>{fn:string($item/PRICE)}</PRICE>,
    <QUANTITY>{fn:sum($STOCKLIST/record[PID = $item/PID]/QUANTITY)}</QUANTITY>
   </record>
}</result>
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

QUESTION: 36
Select the correct result of executing the [XOuery] on [example xml] referenced in a separate window.

```
[example.xml]
<example>
 <record>
  <dept>Sales Department</dept>
  <group>Group No1</group>
  <title>Group Leader</title>
  <name>John Smith</name>
 </record>
 <record>
  <dept>Engineering Department</dept>
  <name>Harold Jones</name>
 </record>
</example>

[XQuery]
declare function local:func($n) {
 if (fn:name($n) = "example") then
  for $c in $n/* return local:func($c)
 else if (fn:name($n) = "record") then
  element { fn:name($n) }
        { for $c in $n/* return local:func($c) }
 else if (fn:name($n) = "name") then $n
 else ( )
};
<result>{
 local:func(fn:doc("example.xml"))
}</result>
```

A. <result/>
B. <result>
<record/>
<record/>
</result>
C. <result>
<record>

<name/>
</record>
<record>
<name/>
</record>
</result>
D. <result>
<record>
<name>John Smith</name>
</record>
<record>
<name>Harold Jones</name>
</record>
</result>

Answer: A

QUESTION: 37
Select the correct result of executing the following [XQuery] on [example xml] referenced in a separate window.

```
[example.xml]
<example>
  <record date="2007-05-15">
    <data condition="bad">50</data>
    <data condition="bad">80</data>
    <data condition="good">250</data>
  </record>
  <record date="2007-05-16">
    <data condition="bad">60</data>
    <data condition="good">90</data>
    <data condition="good">150</data>
  </record>
</example>
```

[XQuery]
<result>{
 for $record in fn:doc("example.xml")/example/record
 return
 <record>{ fn:data($record/data) }</record>
}</result>

A. <result>
<record>50</record>
<record>60</record>
</result>
B. <result>
<record>5080250</record>
<record>6090150</record>
</result>
C. <result>
<record>50 80 250</record>
<record>60 90 150</record>
</result>
D. An error occurs

Answer: D

QUESTION: 38
See separate window.

[example.xml]

```
<example>
  <data>
    <userid>id1</userid>
    <password>pass1</password>
    <name>name1</name>
    <address>add1</address>
  </data>
  <data>
    <userid>id2</userid>
    <password>pass2</password>
    <name>name2</name>
    <address>add2</address>
  </data>
</example>
```

[Execution Result]

```
<result>
  <data>
    <userid>id1</userid>
    <password>pass1</password>
    <name>name1</name>
    <address>add1</address>
  </data>
  <data>
    <userid>id2</userid>
    <password>pass2</password>
    <name>name2</name>
    <address>add2</address>
  </data>
</result>
```

A certain Web application displays user information according to user input via Web browser. The XML data managing user information is as shown in [example.xml] (separate window). The following [XQuery] is executed when the Web application retrieves user information from [example xml].

[XQuery]

```
  <result>{
 fn:doc("example.xml")//data[userid = "(1)"][password = "(2)"]
}</result>
```

At this time, the Web application completes the [XQuery] by replacing (1) and (2) with the user input character string, and executes the query. No character escapes (e.g. convert "<" to "<") are performed for character string input by the user. Select two of the following that produces the query execution result in [Execution Result] (separate window) when the character string is as shown in each answer choice.

A. (1) "or""="
(2) OK
B. (1) "or""="
(2) "or""="
C. (1) idorfn:true()
(2) OK
D. (1) idorfn.true()
(2) idorfn:true()
E. (1) "orfn:true()orany="
(2) OK
F. (1)"orfn:true()orany="
(2)"orfn:true()orany="

Answer: B, F

QUESTION: 39
A certain store engages in Internet commerce, managing customer information via XMLDB. Customers register as a user through a webpage, and are allowed to view their own information so they can edit their information themselves through a webpage interface. The store's Web application saves the customer information in an XMLDB, and retrieves data from the XMLDB as necessary.

The XML data including customer information is as shown in [CUSTOMER.xml] referenced in a separate window.

```
[CUSTOMER.xml]
<DATA>
 <user acount="USER001">
  <private>
   <name>John Smith</name>
   <address>Main Street, Seattle, WA</address>
  </private>
  <payment>
   <card>0123456789</card>
   <name>John Smith</name>
  </payment>
   ...
   ...
 </user>
  ...
  ...
</DATA>
```

The XMLDB account when the Web application connects to the XMLDB is WEBAPP.
A person at the store is in charge of processing payments (access to all registered customer information), and this person's XMLDB account is COUNTER. A person at the store is in charge of product shipments (access to all registered customer information except for payment information ("payment element")), and this person's XMLDB account is SHIPPER. Do not consider XMLDB accounts other than those noted above. Each account authorization in the XMLDB is presently configured as follows: The WEBAPP account has permission to update and view [CUSTOMER xml] Other accounts have permission to view [CUSTOMER.xml] Which is the most appropriate method in this situation regarding XMLDB account authorizations'? Assume that this XMLDB has a view creation function (function to show only certain XML data in response to a certain query)

A. When saving data into the XMLDB,all user element content should be encrypted, and all XMLDB accounts should be given permission for decryption
B. When saving data into the XMLDB, all payment element content should be encrypted, and only the COUNTER account should be given permission for decryption
C. You should create a view (PAYMENT_VIEW) to show only payment element information, providing the COUNTER account with permission to view PAYMENT_VIEW
D. You should create a view (SHIP_V1EW) to show information other than payment element information, providing the SHIPPER account with permission to view SHIP_V1EW, and prohibiting the SHIPPER account from viewing [CUSTOMER.xml]

Answer: D

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