

>CT &XML& XMAP_TESTDBTOXML.XML

```
    XMAP_TESTDBTOXML.XML
0001 <?xml version="1.0" encoding="UTF-8"?>
0002 <!-- DOCTYPE U2XMAP SYSTEM "U2XMAP.DTD" -->
0003 <U2XMAP version="1.0" Name="XMAP1" >
0004     <!-- Table/Class map XCLASS_CLASS -->
0005     <TABLECLASSMAP MapName="M1" StartNode="/Customers/Customer" TableName="CUSTOMER">
0006         <ColumnMap Node="CustID" Column="@ID"/>
0007         <ColumnMap Node="FirstName" Column="FNAME"/>
0008         <ColumnMap Node="LastName" Column="LNAME" />
0009         <ColumnMap Node="State" Column="STATE" />
0010         <ColumnMap Node="ProductID" Column="PRODID" />
0011         <TableMap Node="Products/Product" MapName="M2" />
0012         <TableMap Node="States/State" MapName="M3" />
0013     </TABLECLASSMAP>
0014     <TABLECLASSMAP MapName="M2" StartNode="Products/Product" TableName="PRODUCTS">
0015         <ColumnMap Node="Price" Column="LIST" />
0016         <ColumnMap Node="Description" Column="DESCRIPTION" />
0017     </TABLECLASSMAP>
0018     <TABLECLASSMAP MapName="M3" StartNode="States/State" TableName="STATES">
0019         <ColumnMap Node="StateName" Column="NAME" />
0020     </TABLECLASSMAP>
0021     <RelatedTable>
0022         <MapParentKey TableName="CUSTOMER" Column="PRODID" KeyGenerate="No" />
0023         <MapChildKey TableName="PRODUCTS" Column="PRODID" />
0024     </RelatedTable>
0025     <RelatedTable>
0026         <MapParentKey TableName="CUSTOMER" Column="STATE" KeyGenerate="No" />
0027         <MapChildKey TableName="STATES" Column="CODE" />
0028     </RelatedTable>
0029 </U2XMAP>
```

OUTPUT: (notice the repeating sets of fields within the <Product> element)

>DB.TOXML CUSTOMERINFO.XML XMAP_TESTDBTOXML.XML
DB.TOXML success

>CT &XML& CUSTOMERINFO.XML
CUSTOMERINFO.XML

```
0001 <?xml version="1.0" encoding="utf-8" standalone="yes" ?>
0002 <Customers>
0003
0004   <Customer>
0005     <CustID>2</CustID>
0006     <FirstName>Diana</FirstName>
0007     <LastName>Morris</LastName>
0008     <State>MA</State>
0009     <ProductID>C2000ýM3000ýS3000</ProductID>
0010     <Products>
0011       <Product>
0012         <Price>$12,990</Price>
0013         <Description>Heavy duty monochrome copier</Description>
0014         <Price>$12,990</Price>
0015         <Description>Heavy duty monochrome copier</Description>
0016       </Product>
0017       <Product>
0018         <Price>$6,890</Price>
0019         <Description>Moderate duty, entry level, color copier</Description>
0020         <Price>$6,890</Price>
0021         <Description>Moderate duty, entry level, color copier</Description>
0022       </Product>
0023       <Product>
0024         <Price>$1,990</Price>
0025         <Description>Sorting attachment for M3000/C3000</Description>
0026         <Price>$1,990</Price>
0027         <Description>Sorting attachment for M3000/C3000</Description>
0028       </Product>
0029     </Products>
0030     <States>
0031       <State>
0032         <StateName>Massachusetts</StateName>
0033       </State>
0034     </States>
0035   </Customer>
0036
0037   <Customer>
0038     <CustID>4</CustID>
0039     <FirstName>Jill</FirstName>
0040     <LastName>Kahn</LastName>
0041     <State>MA</State>
0042     <ProductID>C3000</ProductID>
0043     <Products>
0044       <Product>
0045         <Price>$17,990</Price>
0046         <Description>Heavy duty color copier</Description>
0047         <Price>$17,990</Price>
0048         <Description>Heavy duty color copier</Description>
0049       </Product>
0050     </Products>
0051     <States>
0052       <State>
0053         <StateName>Massachusetts</StateName>
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0054     </State>
0055   </States>
0056 </Customer>
0057
0058 <Customer>
0059   <CustID>6</CustID>
0060   <FirstName>Betty</FirstName>
0061   <LastName>Burke</LastName>
0062   <State>VT</State>
0063   <States>
0064     <State>
0065       <StateName>Vermont</StateName>
0066     </State>
0067   </States>
0068 </Customer>
0069
0070 <Customer>
0071   <CustID>3</CustID>
0072   <FirstName>David</FirstName>
0073   <LastName>Argonne</LastName>
0074   <State>MA</State>
0075   <ProductID>M2000</ProductID>
0076   <Products>
0077     <Product>
0078       <Price>$4,490</Price>
0079       <Description>Moderate duty, monochrome copier</Description>
0080       <Price>$4,490</Price>
0081       <Description>Moderate duty, monochrome copier</Description>
0082     </Product>
0083   </Products>
0084   <States>
0085     <State>
0086       <StateName>Massachusetts</StateName>
0087     </State>
0088   </States>
0089 </Customer>
0090
0091 <Customer>
0092   <CustID>5</CustID>
0093   <FirstName>Kenneth</FirstName>
0094   <LastName>Williams</LastName>
0095   <State>RI</State>
0096   <ProductID>M1000ýM1000</ProductID>
0097   <Products>
0098     <Product>
0099       <Price>$1,990</Price>
0100       <Description>Low cost, entry level, light duty, monochrome copier</Description>
0101       <Price>$1,990</Price>
0102       <Description>Low cost, entry level, light duty, monochrome copier</Description>
0103     </Product>
0104   </Products>
0105   <States>
0106     <State>
0107       <StateName>Rhode Island</StateName>
0108     </State>
0109   </States>
0110 </Customer>
0111
0112 <Customer>
0113   <CustID>7</CustID>
0114   <FirstName>Martha</FirstName>
```

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0115     <LastName>Gill</LastName>
0116     <State>NH</State>
0117     <ProductID>M2000ýS2000</ProductID>
0118     <Products>
0119         <Product>
0120             <Price>$990</Price>
0121             <Description>Sorting attachment for M2000/C2000</Description>
0122             <Price>$990</Price>
0123             <Description>Sorting attachment for M2000/C2000</Description>
0124         </Product>
0125         <Product>
0126             <Price>$4,490</Price>
0127             <Description>Moderate duty, monochrome copier</Description>
0128             <Price>$4,490</Price>
0129             <Description>Moderate duty, monochrome copier</Description>
0130         </Product>
0131     </Products>
0132     <States>
0133         <State>
0134             <StateName>New Hampshire</StateName>
0135         </State>
0136     </States>
0137 </Customer>
0138
0139 <Customer>
0140     <CustID>10</CustID>
0141     <FirstName>Andrew</FirstName>
0142     <LastName>McCaig</LastName>
0143     <State>VT</State>
0144     <ProductID>M1000ýM1000ýC2000</ProductID>
0145     <Products>
0146         <Product>
0147             <Price>$1,990</Price>
0148             <Description>Low cost, entry level, light duty, monochrome copier</Description>
0149             <Price>$1,990</Price>
0150             <Description>Low cost, entry level, light duty, monochrome copier</Description>
0151         </Product>
0152         <Product>
0153             <Price>$6,890</Price>
0154             <Description>Moderate duty, entry level, color copier</Description>
0155             <Price>$6,890</Price>
0156             <Description>Moderate duty, entry level, color copier</Description>
0157         </Product>
0158     </Products>
0159     <States>
0160         <State>
0161             <StateName>Vermont</StateName>
0162         </State>
0163     </States>
0164 </Customer>
0165
0166 <Customer>
0167     <CustID>8</CustID>
0168     <FirstName>Steven</FirstName>
0169     <LastName>Holland</LastName>
0170     <State>MA</State>
0171     <ProductID>M3000ýS3000</ProductID>
0172     <Products>
0173         <Product>
0174             <Price>$1,990</Price>
0175             <Description>Sorting attachment for M3000/C3000</Description>

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0176         <Price>$1,990</Price>
0177         <Description>Sorting attachment for M3000/C3000</Description>
0178     </Product>
0179     <Product>
0180         <Price>$12,990</Price>
0181         <Description>Heavy duty monochrome copier</Description>
0182         <Price>$12,990</Price>
0183         <Description>Heavy duty monochrome copier</Description>
0184     </Product>
0185 </Products>
0186 <States>
0187     <State>
0188         <StateName>Massachusetts</StateName>
0189     </State>
0190 </States>
0191 </Customer>
0192
0193 <Customer>
0194     <CustID>12</CustID>
0195     <FirstName>Laurie</FirstName>
0196     <LastName>Patry</LastName>
0197     <State>MA</State>
0198 <States>
0199     <State>
0200         <StateName>Massachusetts</StateName>
0201     </State>
0202 </States>
0203 </Customer>
0204
0205 <Customer>
0206     <CustID>1</CustID>
0207     <FirstName>Samuel</FirstName>
0208     <LastName>Smith</LastName>
0209     <State>NH</State>
0210     <ProductID>M2000</ProductID>
0211 <Products>
0212     <Product>
0213         <Price>$4,490</Price>
0214         <Description>Moderate duty, monochrome copier</Description>
0215         <Price>$4,490</Price>
0216         <Description>Moderate duty, monochrome copier</Description>
0217     </Product>
0218 </Products>
0219 <States>
0220     <State>
0221         <StateName>New Hampshire</StateName>
0222     </State>
0223 </States>
0224 </Customer>
0225
0226 <Customer>
0227     <CustID>9</CustID>
0228     <FirstName>Nicole</FirstName>
0229     <LastName>Orlando</LastName>
0230     <State>MA</State>
0231 <States>
0232     <State>
0233         <StateName>Massachusetts</StateName>
0234     </State>
0235 </States>
0236 </Customer>
```

```
0237
0238 <Customer>
0239   <CustID>11</CustID>
0240   <FirstName>Skip</FirstName>
0241   <LastName>Lewis</LastName>
0242   <State>MA</State>
0243   <States>
0244     <State>
0245       <StateName>Massachusetts</StateName>
0246     </State>
0247   </States>
0248 </Customer>
0249
0250 </Customers>
>
```