

```
XmlString.sql - (loc...er (LABS\dellp (55)) + X
      1
          declare @XML xml;
      2
      3
          set @XML =
      4
      5
          <employees>
      6
            <employee>
      7
              <empID>1</empID>
      8
               <first>Mickey</first>
      9
               <last>Mouse
     10
            </employee>
             <employee>
     11
     12
               <empID>2</empID>
     13
              <first>Minnie</first>
     14
               <last>Mouse
             </employee>
     15
     16
          </employees>
     17
     18
     19
          Select @XML.query('/employees');
     20 Select @XML.query('/employees/employee');
     21 Select @XML.query('/employees/employee/last');
     22 select @XML.query('/employees/employee[2]');
          Select @XML.query('/employees/employee[first="Minnie"]');
     23
     24
103 %
      --
Results hessages
      (No column name)
      <employees><employee><emplD>1</emplD><first>Mick.
     (No column name)
     <employee><emplD>1</emplD><first>Mickey</first><...</pre>
     (No column name)
      <last>Mouse</last>dast>Mouse</last>
      (No column name)
      <emplD>2</emplD><first>Minnie</first><...</pre>
     (No column name)
 Query executed successfully.
                                                           (local)\sqlexpress01 (13.0 ... | LABS\dellp (55) | master | 00:00:00 | 5 rows
```

Tuesday, June 20, 2017 11:33 PM

```
XmlManipulation.sql...r (LABS\dellp (57)) → X ForXML.sql - (local...nd (LABS\dellp (56))
        DECLARE @xml XML
     3
       SET @xml=N'<Root>
     4
           <orderHRD ID="101">
     5
              <custID>501</custID>
     6
              <orderDTL ID="201">
     7
                  odID>1
     8
                   <qty>5</qty>
     9
                   <cost>25.12</cost>
    10
              </orderDTL>
               <orderDTL ID="202">
    11
    12
                  odID>2
    13
                   <qty>3</qty>
                   <cost>30.00</cost>
    14
               </orderDTL>
    15
           </orderHRD>
    16
          <orderHRD ID="102">
    17
    18
               <custID>502</custID>
               <orderDTL ID="203">
    19
    20
                  odID>11
                   <qty>12</qty>
    21
    22
                   <cost>140.78</cost>
    23
               </orderDTL>
    24
           </orderHRD>
           <orderHRD ID="103">
    25
    26
               <custID>503</custID>
    27
               <orderDTL ID="204">
    28
                  odID>6
    29
                   <qty>8</qty>
    30
                  <cost>60.35</cost>
              </orderDTL>
    31
              <orderDTL ID="205">
    32
                  odID>9
    33
    34
                   <qty>2</qty>
                   <cost>10.50</cost>
    35
    36
              </orderDTL>
    37
               <orderDTL ID="206">
    38
                   odID>10
    39
                   <qty>6</qty>
    40
                   <cost>120.89</cost>
    41
               </orderDTL>
    42
           </orderHRD>
    43 </Root>';
```

Run as We Build each Line

select XMLSet.Field.value('../@ID', 'int') as OrderHDR_ID, XMLSet.Field.value('../custID[1]', 'int') as Cust_ID, XMLSet.Field.value('@ID', 'int') as OrderDTL_ID, XMLSet.Field.value('prodID[1]', 'int') as Prod_ID, XMLSet.Field.value('qty[1]', 'int') as QTY, XMLSet.Field.value('cost[1]', 'float') as Cost, XMLSet.Field.value('count(../orderDTL)', 'int') as Cust_Ord_Count from @xml.nodes('/Root/orderHRD/orderDTL') XMLSet(Field)

```
ForJSON.sql - (loca...nd (LABS\dellp (56)) + X
     use Northwind
     GO
    Select EmployeeID, FirstName, LastName, HireDate
     From Employees
     Where Region = 'WA'
     For JSON AUTO;
     DECLARE
                 @JSONText NVARCHAR(MAX)
            @JSONText = N'{
    SET
                      "Order":{
                              "OrderID": 43663,
                              "Status":5,
                              "PONumber": "P018009186470"
                      "Product":{
                              "ShipDate": "2011-06-07T00:00:00",
                              "ProductID":760
                              }
             }'
     SELECT * FROM OPENJSON(@JSONText);
     SELECT * FROM OPENJSON(@JSONText, '$.Order');
     SELECT * FROM OPENJSON(@JSONText, '$.Product');
115 % + 4
Results 🔓 Messages
     JSON_F52E2B61-18A1-11d1-B105-00805F49916B
                                                                     Value of the Type
                                                                                        JSON data
    [{"EmployeeID":1,"FirstName":"Nancy","LastName":".
                                                                         column
                                                                                          type
     key
             value
                                             type
                                                                            0
                                                                                          null
    Order
             {
                       "OrderID":43663,
                       "Ship Date": "2011-06-07T0...
     Product {
                                                                                          string
               value
     key
                            type
                                                                            2
                                                                                           int
    OrderID
 1
               43663
                             2
                                                                            3
                                                                                        true/false
     Status
                             2
     PONumber PO18009186470 1
                                                                            4
                                                                                          array
              value
     key
                               type
                                                                            5
                                                                                          object
     ShipDate
             2011-06-07T00:00:00 1
                                                                   ProductID 760
                                                (local)\sqlexpress01 (13.0 ... LABS\dellp (56) Northwind 00:00:00 8 rows
Query executed successfully.
```