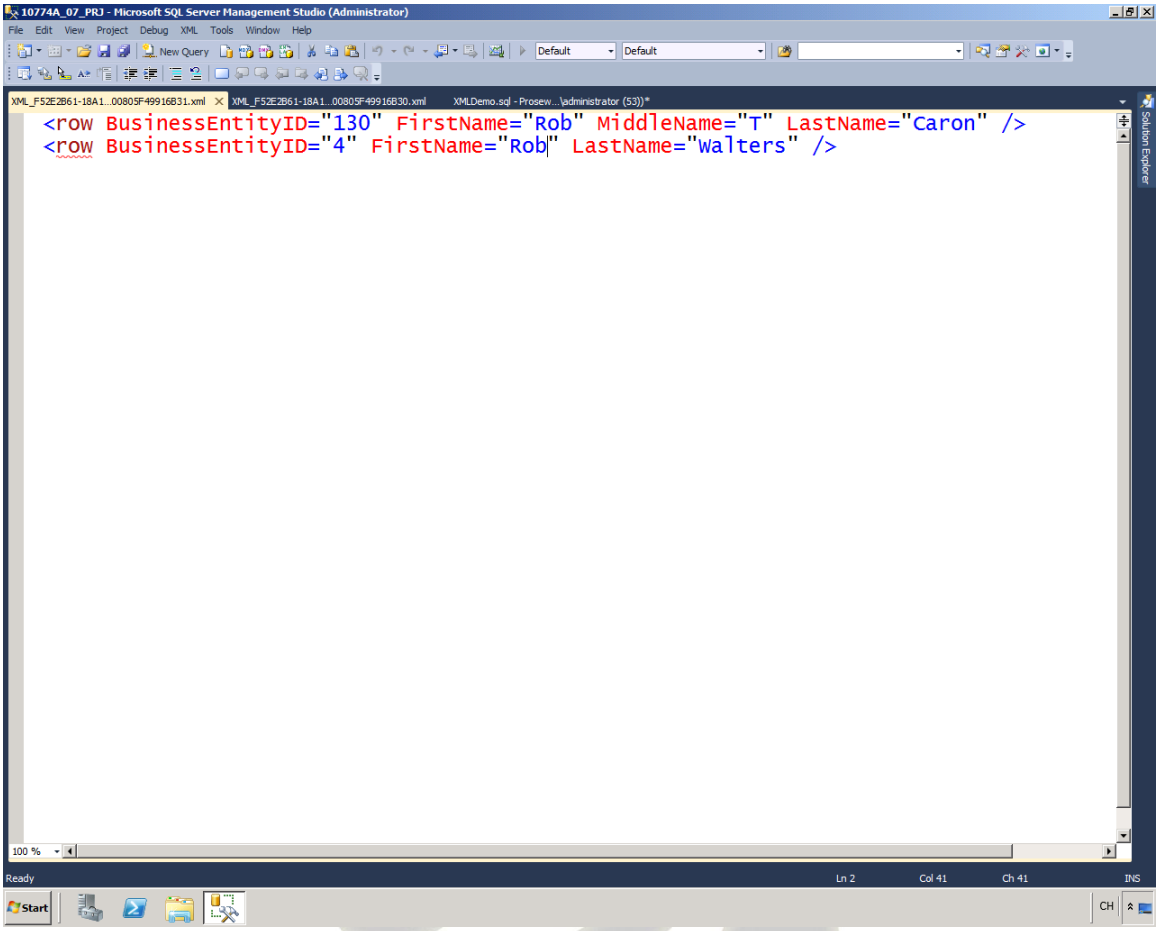
EXAMPLE 1




```
--RAW MODE Generates A Single Element For Each Row
In The Result Set

SELECT e.BusinessEntityID, c.FirstName,
c.MiddleName, c.LastName

FROM HumanResources.Employee e INNER JOIN
Person.Person c

    ON c.BusinessEntityID = e.BusinessEntityID

WHERE c.FirstName = 'Rob'

FOR XML RAW;
```

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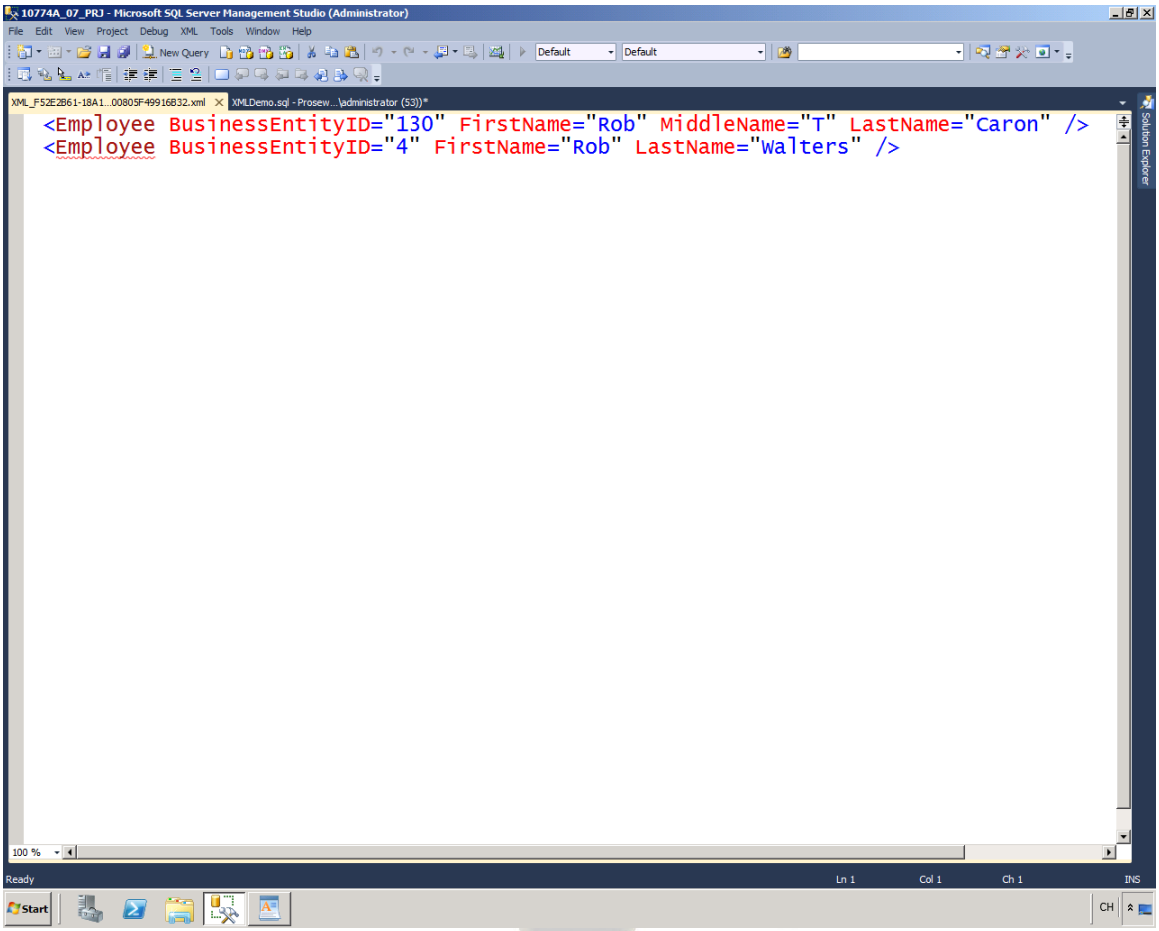
EXAMPLE 2




```
--Override Default Behaviour Providing A Name For
The Element

SELECT e.BusinessEntityID, c.FirstName,
c.MiddleName, c.LastName

FROM HumanResources.Employee e INNER JOIN
Person.Person c

    ON c.BusinessEntityID = e.BusinessEntityID

WHERE c.FirstName = 'Rob'

FOR XML RAW ('Employee');
```

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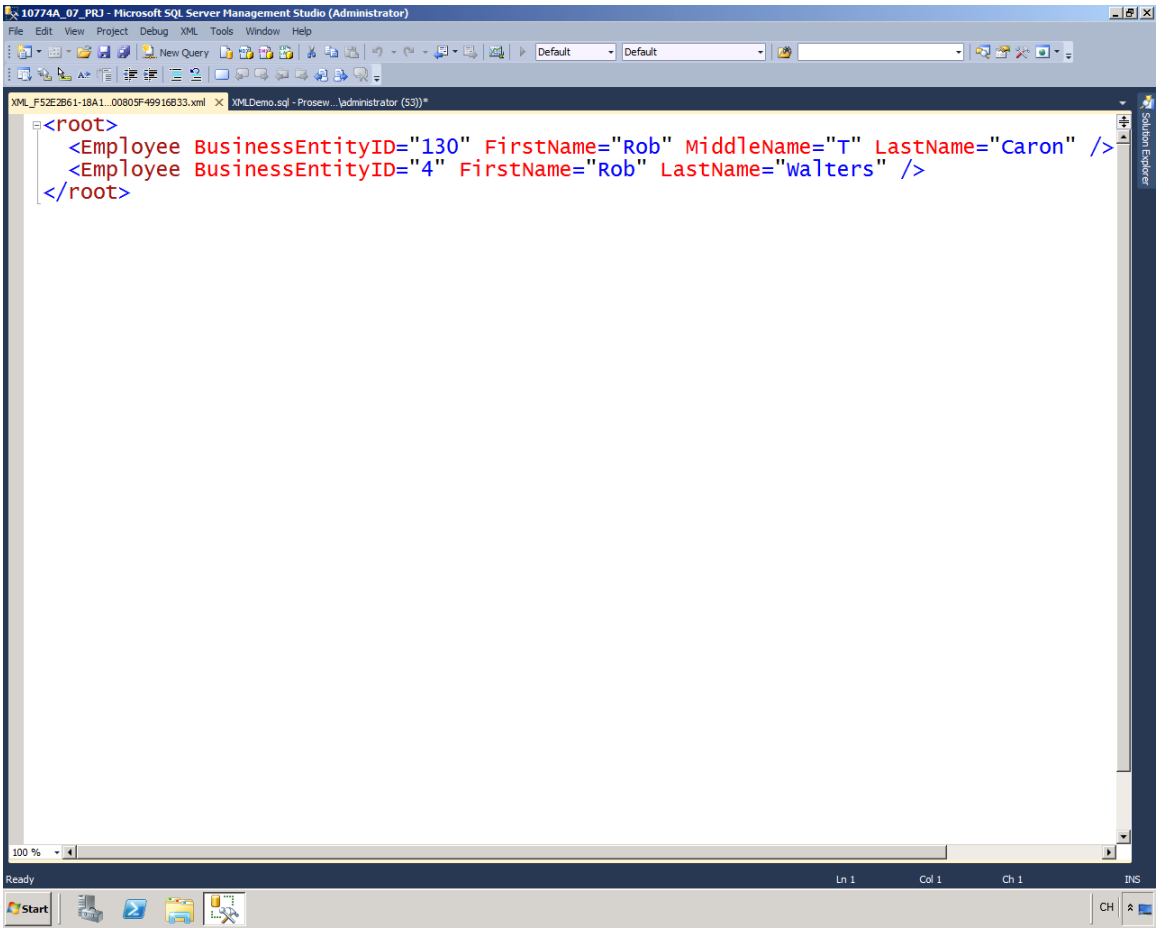
EXAMPLE 3




```
--Also Specify A Root Element Be Created To Wrap All
Other Elements Using the ROOT Keyword

SELECT e.BusinessEntityID, c.FirstName,
c.MiddleName, c.LastName

FROM HumanResources.Employee e INNER JOIN
Person.Person c

    ON c.BusinessEntityID = e.BusinessEntityID

WHERE c.FirstName = 'Rob'

FOR XML RAW ('Employee'), ROOT; --add a comma
separate the elements
```

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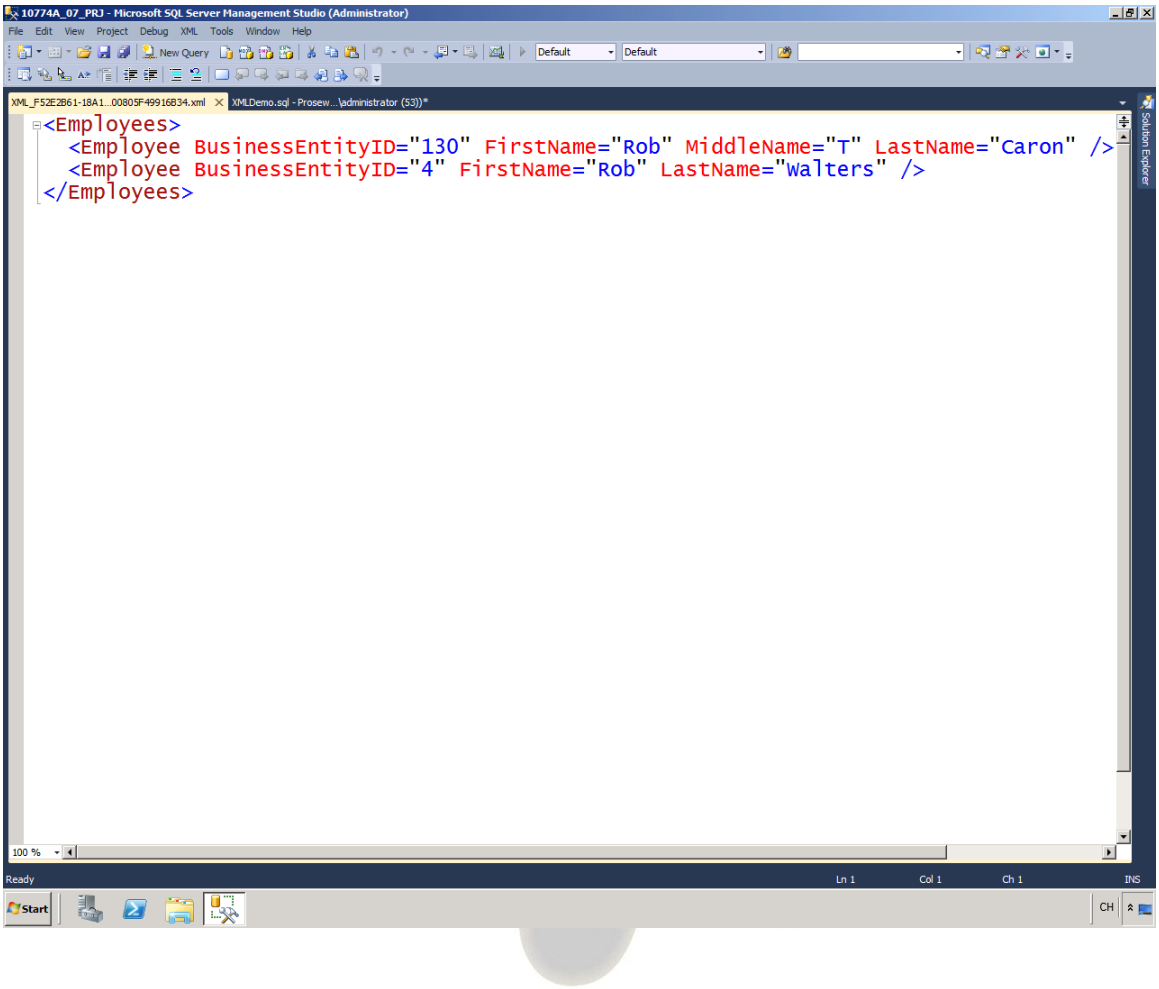
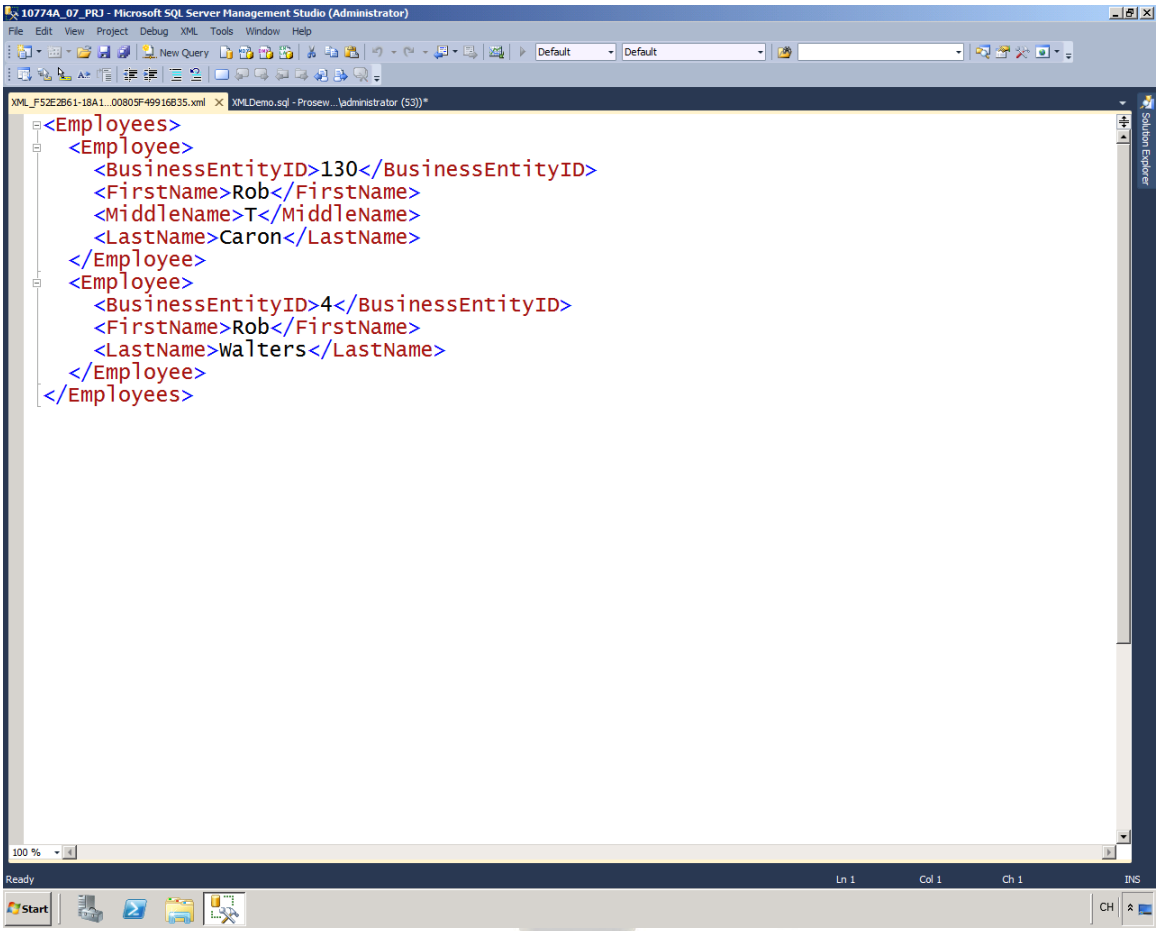
EXAMPLE 4




```
--Also Provide a Specific Name For The ROOT Element

SELECT e.BusinessEntityID, c.FirstName,
c.MiddleName, c.LastName

FROM HumanResources.Employee e INNER JOIN
Person.Person c

    ON c.BusinessEntityID = e.BusinessEntityID

WHERE c.FirstName = 'Rob'

FOR XML RAW ('Employee'), ROOT ('Employees');
```

FIREBRAND

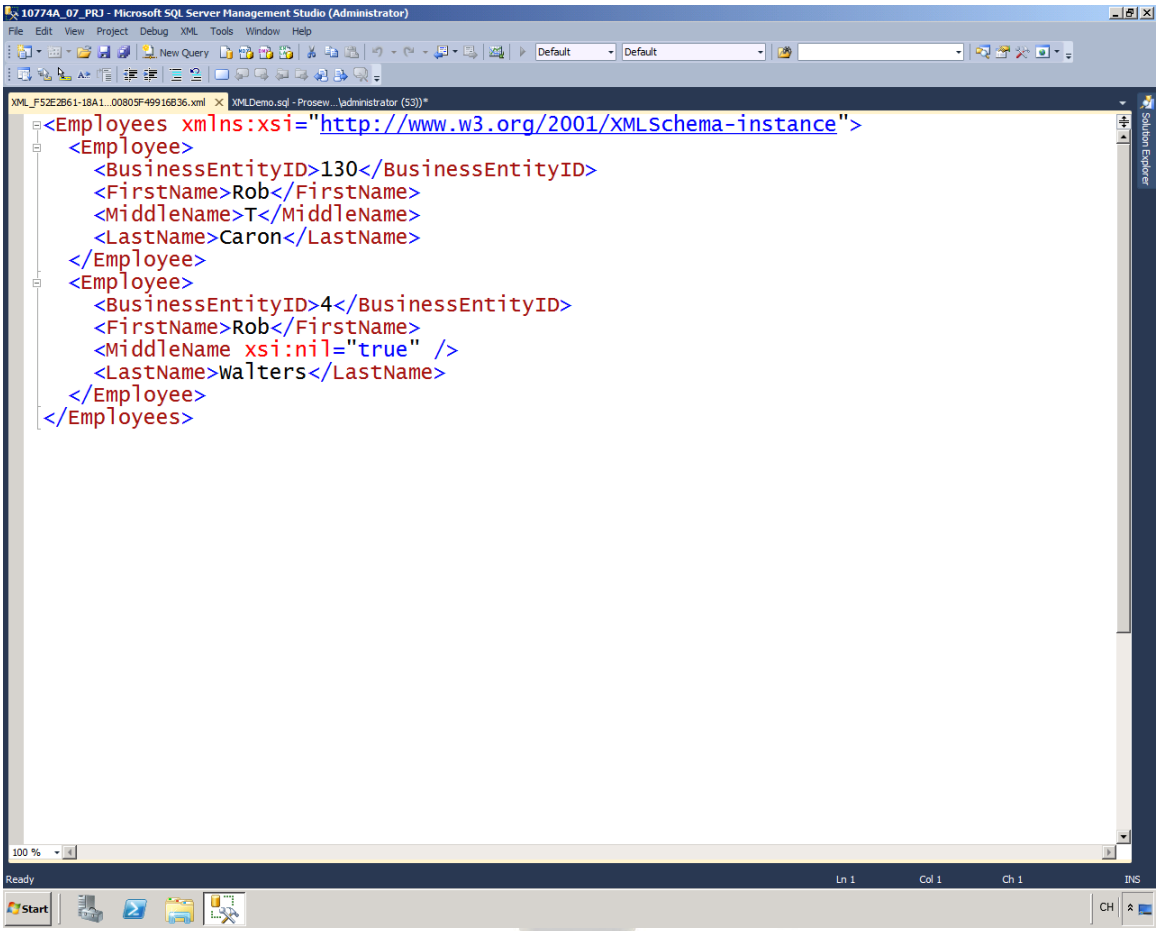
EXAMPLE 5




```
--Specify That The Column Values Be Added AS Child
Elements To The Row Elements Using The ELEMENTS
Option


SELECT e.BusinessEntityID, c.FirstName,
c.MiddleName, c.LastName

FROM HumanResources.Employee e INNER JOIN
Person.Person c

    ON c.BusinessEntityID = e.BusinessEntityID

WHERE c.FirstName = 'Rob'

FOR XML RAW ('Employee'), ROOT ('Employees'),
ELEMENTS;
```

FIREBRAND

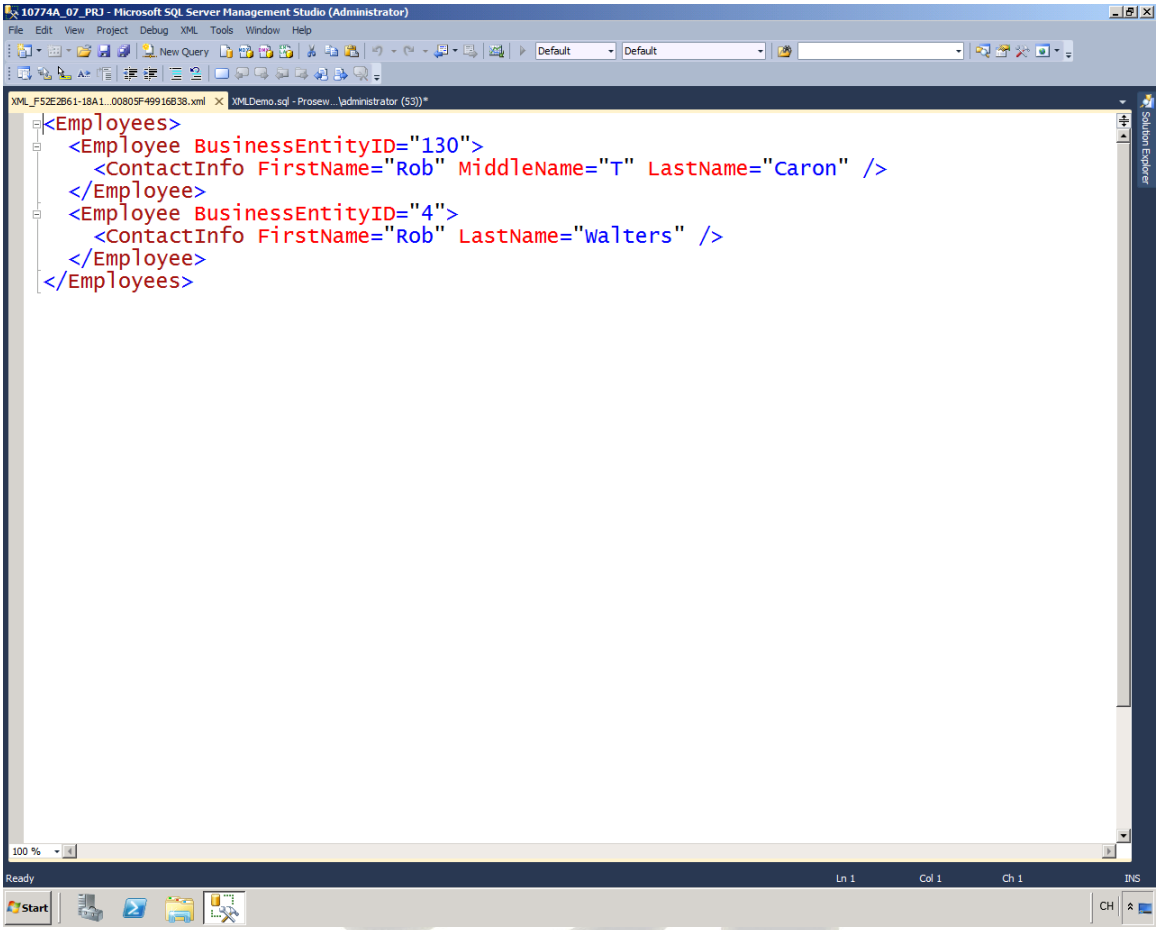
EXAMPLE 6




```
--No Elements Are Created For Columns With Null Value Can Override Using XSINIL Keyword To Elements Option


SELECT e.BusinessEntityID, c.FirstName, c.MiddleName, c.LastName

FROM HumanResources.Employee e INNER JOIN Person.Person c

    ON c.BusinessEntityID = e.BusinessEntityID

WHERE c.FirstName = 'Rob'

FOR XML RAW ('Employee'), ROOT ('Employees'), ELEMENTS XSINIL;
```

FIREBRAND

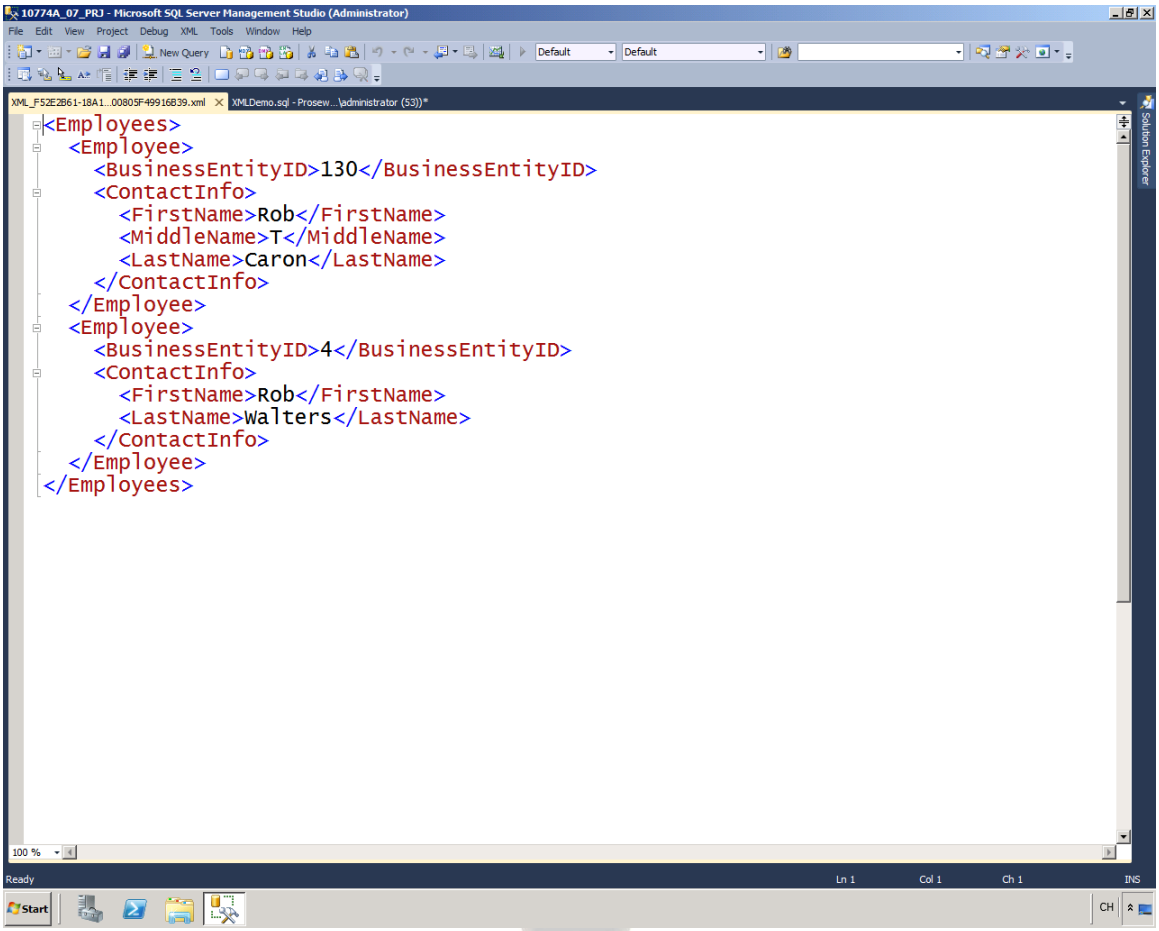
EXAMPLE 7




```
--AUTO MODE Generates The XML Based On How Select
Is Defined


SELECT Employee.BusinessEntityID,
ContactInfo.FirstName,
    ContactInfo.MiddleName, ContactInfo.LastName
FROM HumanResources.Employee AS Employee
    INNER JOIN Person.Person AS ContactInfo
    ON ContactInfo.BusinessEntityID =
Employee.BusinessEntityID
WHERE ContactInfo.FirstName = 'Rob'
FOR XML AUTO, ROOT ('Employees');
```

FIREBRAND

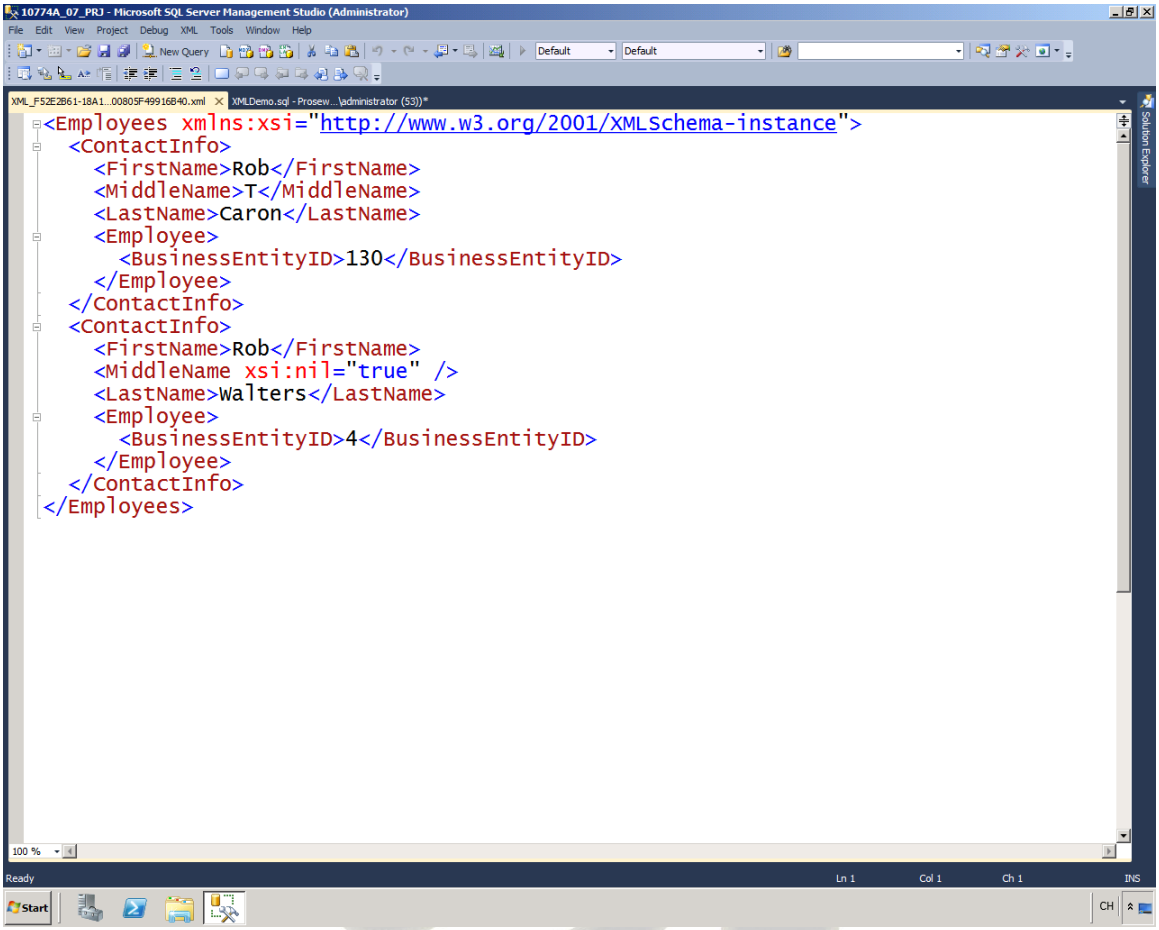
EXAMPLE 8




```
-Using ELEMENTS Options Show As Child elements
Rather Than Attributes

SELECT Employee.BusinessEntityID,
ContactInfo.FirstName,

    ContactInfo.MiddleName, ContactInfo.LastName

FROM HumanResources.Employee AS Employee

    INNER JOIN Person.Person AS ContactInfo

    ON ContactInfo.BusinessEntityID =
Employee.BusinessEntityID

WHERE ContactInfo.FirstName = 'Rob'

FOR XML AUTO, ROOT ('Employees'), ELEMENTS;
```

FIREBRAND

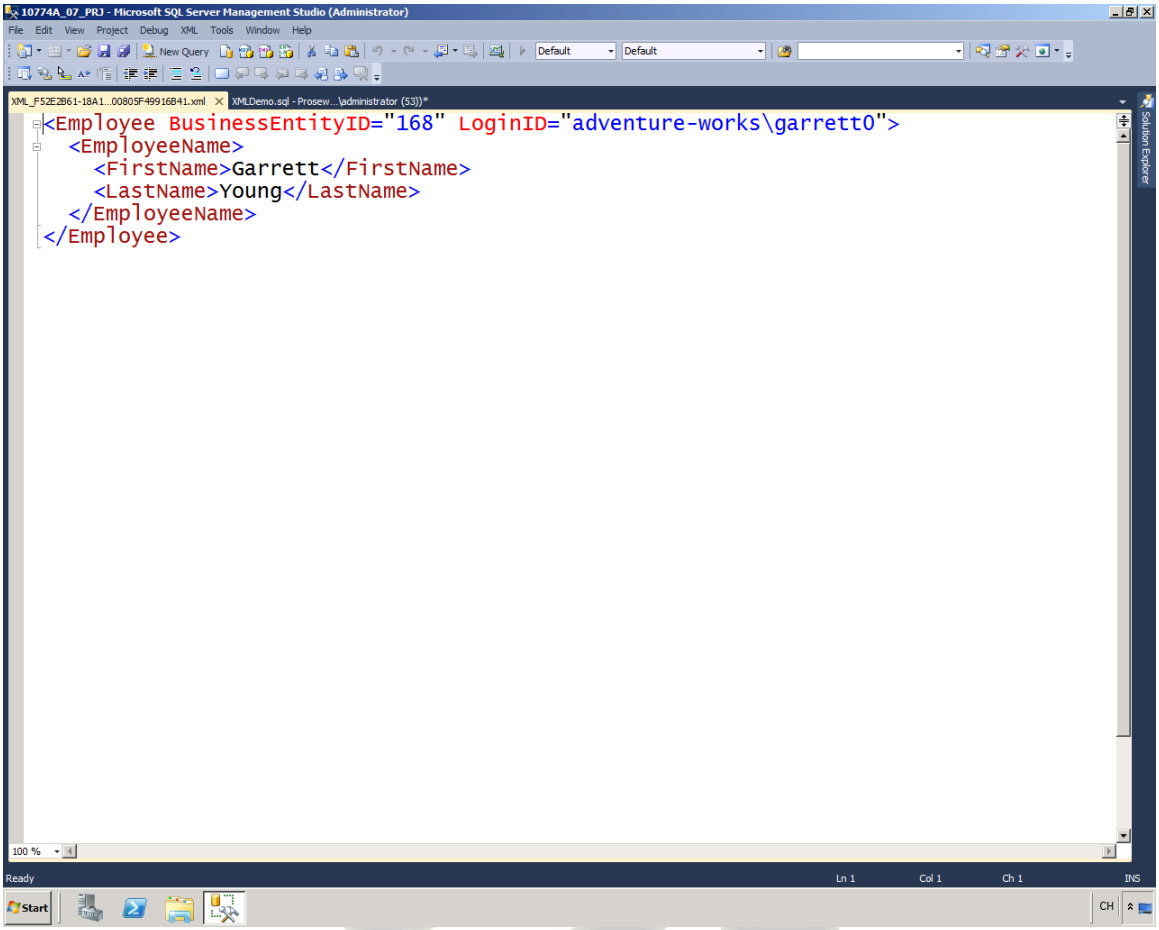
EXAMPLE 9




```
-Using XSINIL Option With AUTO Mode

SELECT ContactInfo.FirstName,
ContactInfo.MiddleName,

   ContactInfo.LastName,
Employee.BusinessEntityID

FROM HumanResources.Employee AS Employee

   INNER JOIN Person.Person AS ContactInfo

   ON ContactInfo.BusinessEntityID =
Employee.BusinessEntityID

WHERE ContactInfo.FirstName = 'Rob'

FOR XML AUTO, ROOT ('Employees'), ELEMENTS XSINIL;
```

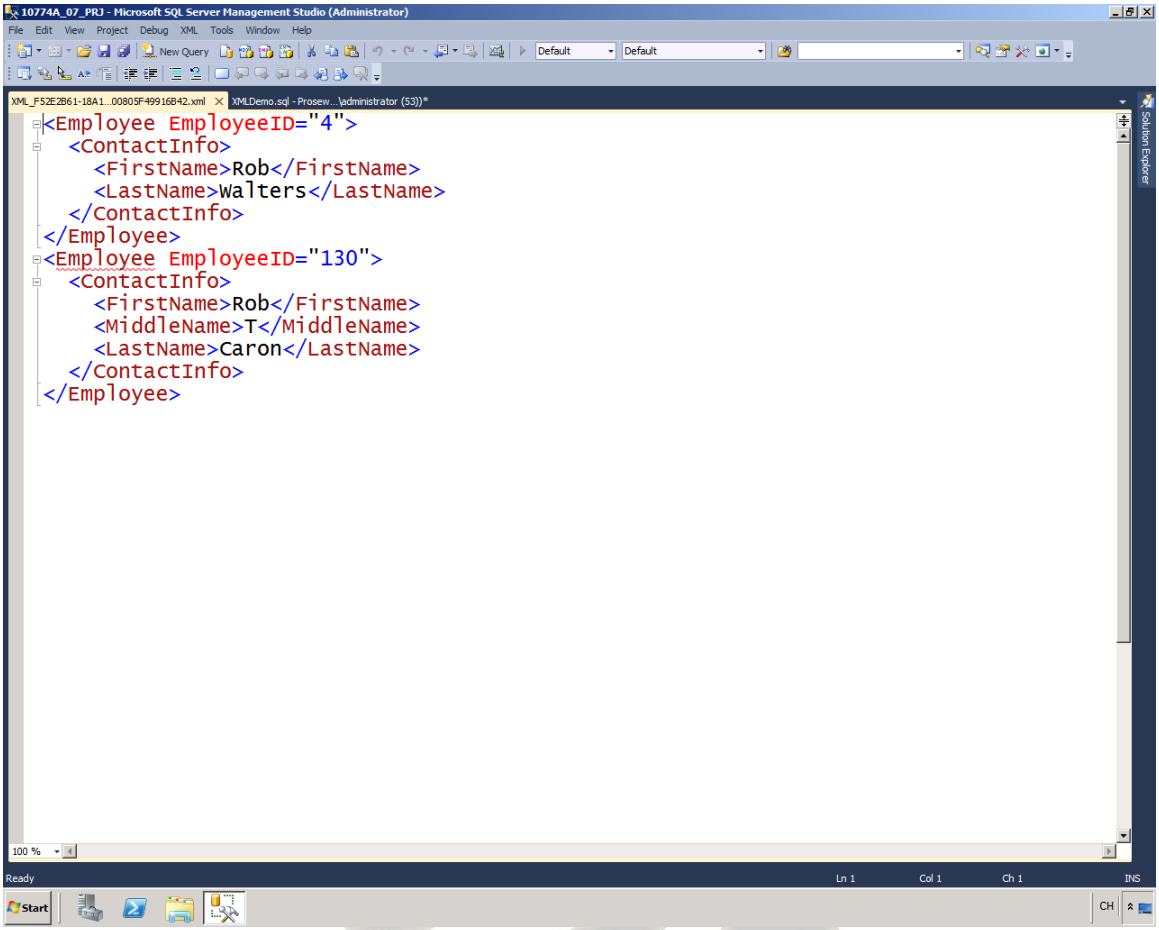
FIREBRAND

EXAMPLE 10




```
--Return Some Data As Attributes And Some As Child
Elements. Use SubQuery Method.--TYPE Option
Preserve The Data As XML Returned By SubQuery To
Outer Select

SELECT BusinessEntityID, LoginID,

    (SELECT FirstName, LastName

     FROM Person.Person AS EmployeeName

     WHERE EmployeeName.BusinessEntityID =
Employee.BusinessEntityID

     FOR XML AUTO, TYPE, ELEMENTS)

FROM HumanResources.Employee AS Employee

WHERE BusinessEntityID = 168

FOR XML AUTO;
```

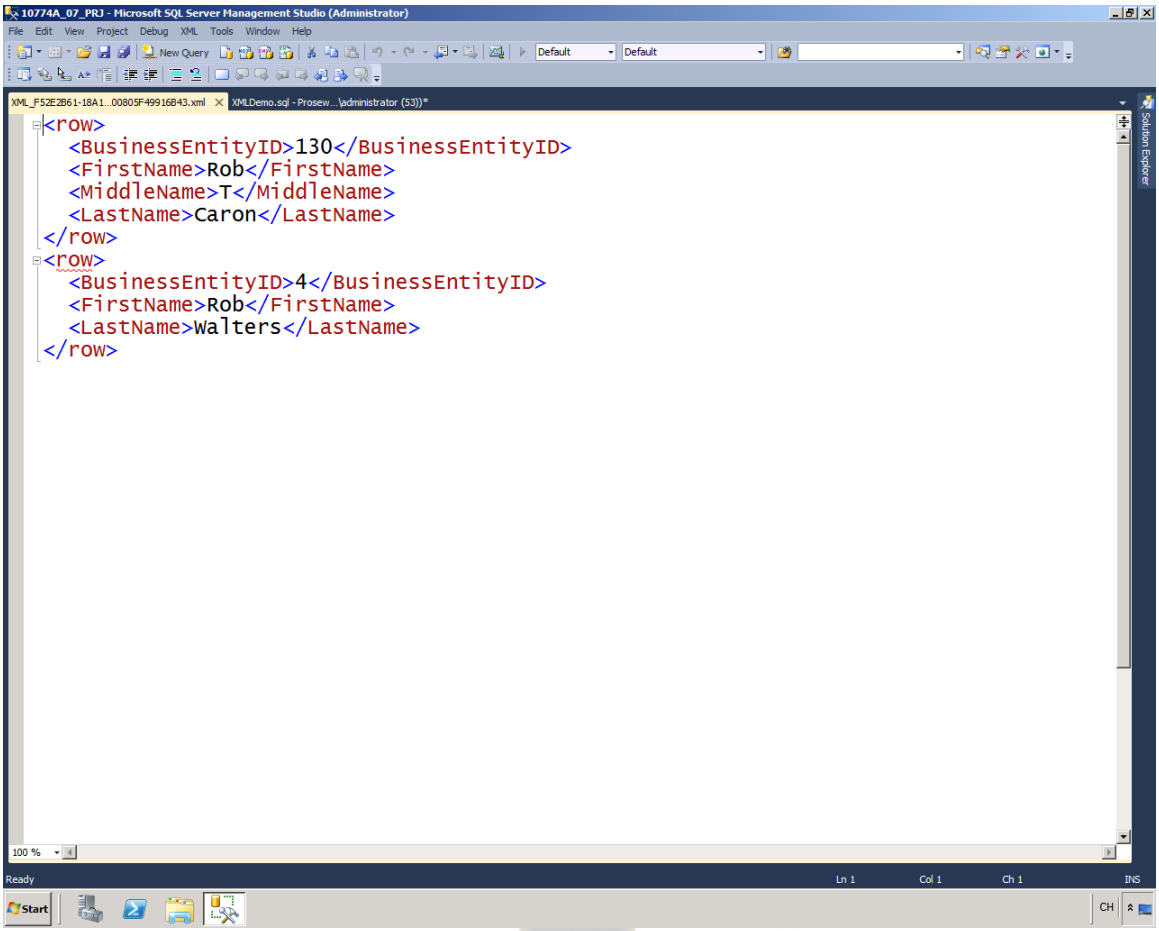
EXAMPLE 11


10774A_07_PRJ - Microsoft SQL Server Management Studio (Administrator)
File Edit View Project Debug XML Tools Window Help
New Query
Default
Default
XML_F52E2B61-18A1...00805F49916B42.xml
XMLDemo.sql - Prosew...\administrator (53))*
<Employee EmployeeID="4">
<ContactInfo>
<FirstName>Rob</FirstName>
<LastName>Walters</LastName>
</ContactInfo>
</Employee>
<Employee EmployeeID="130">
<ContactInfo>
<FirstName>Rob</FirstName>
<MiddleName>T</MiddleName>
<LastName>Caron</LastName>
</ContactInfo>
</Employee>
Solution Explorer
100 %
Ready
Ln 1
Col 1
Ch 1
INS
Start
CH

```
--EXPLICIT Mode Build Your Select In A Way As To Define The XML
Hierarchy And Structure

SELECT 1 AS Tag, --numerical value each level in the hirearchy

   NULL AS Parent, --numerical value identifies the parent NULL
top of hirearchy

   e.BusinessEntityID AS [Employee!1!EmployeeID],

   NULL AS [ContactInfo!2!FirstName!ELEMENT],

   NULL AS [ContactInfo!2!MiddleName!ELEMENT],--column Alias TAG
number the value should be assigned to

   NULL AS [ContactInfo!2!LastName!ELEMENT]--optional directive
how to construct the XML

FROM HumanResources.Employee e INNER JOIN Person.Person c

   ON c.BusinessEntityID = e.BusinessEntityID

WHERE c.FirstName = 'Rob'

UNION ALL

SELECT 2 AS Tag,

   1 AS Parent,

   e.BusinessEntityID,

   c.FirstName,

   c.MiddleName,

   c.LastName

FROM HumanResources.Employee e INNER JOIN Person.Person c

   ON e.BusinessEntityID = c.BusinessEntityID

WHERE c.FirstName = 'Rob'

ORDER BY [Employee!1!EmployeeID],
[ContactInfo!2!FirstName!ELEMENT]

FOR XML EXPLICIT;
```

FIREBRAND

EXAMPLE 12

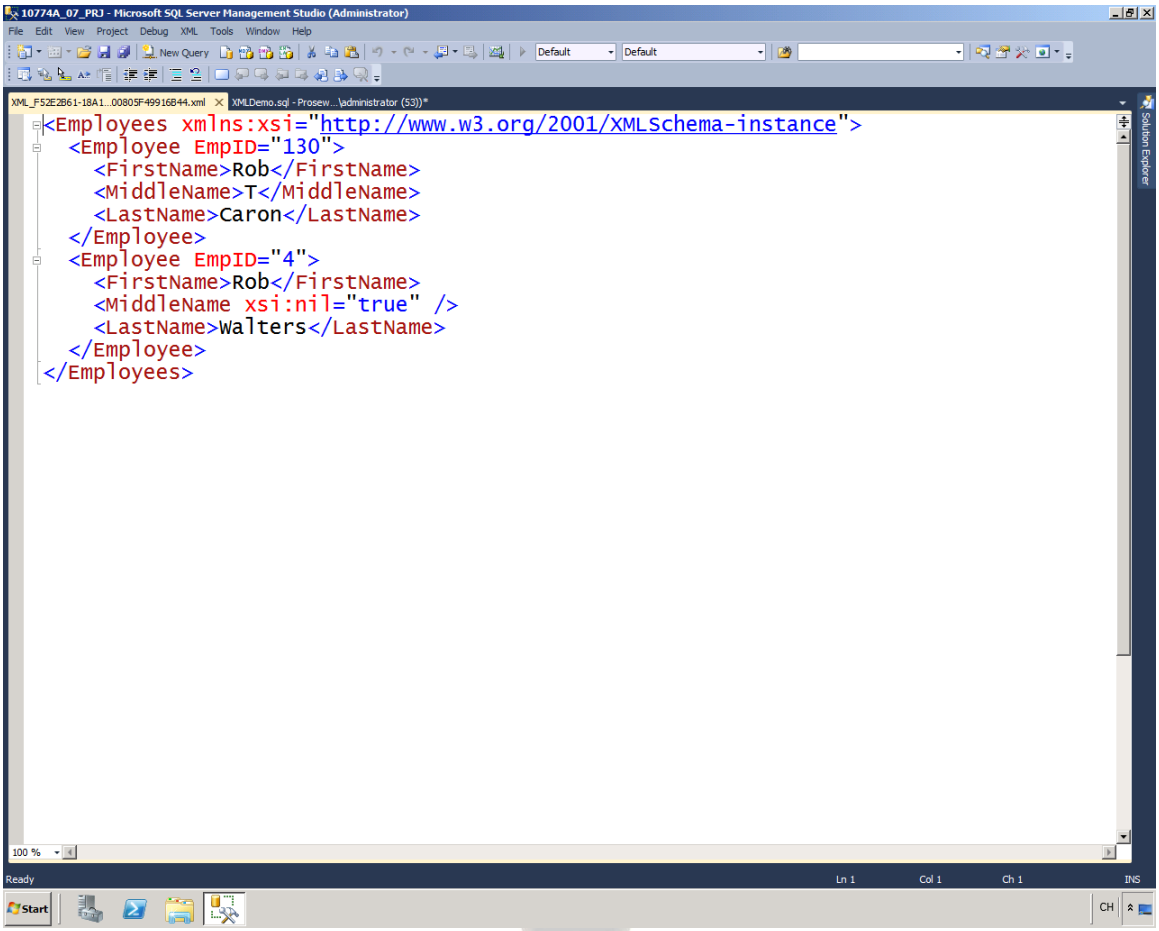



```
---PATH Mode Column Names Treated As XPath
Expressions That Determine How Data Values Mapped
To XML Result Set

--Each Column Added As A Child Element


SELECT e.BusinessEntityID, c.FirstName,
    c.MiddleName, c.LastName
FROM HumanResources.Employee AS e
    INNER JOIN Person.Person AS c
    ON c.BusinessEntityID = e.BusinessEntityID
WHERE c.FirstName = 'Rob'
```

FIREBRAND

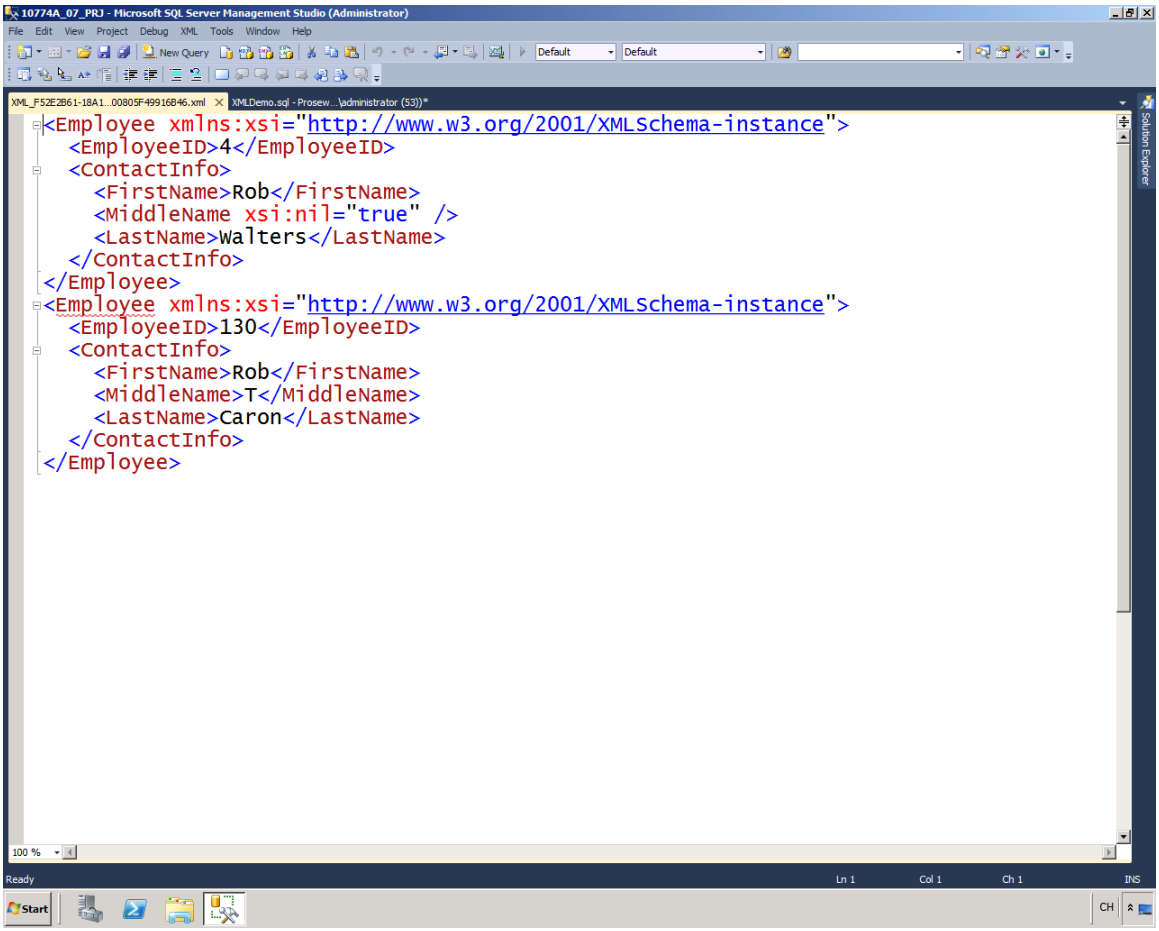
FOR XML PATH;

EXAMPLE 13




```
--Return Null Values
SELECT e.BusinessEntityID AS "@EmpID",
    c.FirstName, c.MiddleName, c.LastName
FROM HumanResources.Employee AS e
    INNER JOIN Person.Person AS c
    ON c.BusinessEntityID = e.BusinessEntityID
WHERE c.FirstName = 'Rob'
FOR XML PATH ('Employee'), ROOT ('Employees'),
ELEMENTS XSINIL;
```

EXAMPLE 14


10774A_07_PRJ - Microsoft SQL Server Management Studio (Administrator)
File Edit View Project Debug XML Tools Window Help
New Query
Default
Default
XML_F52E2B61-18A1...00805F49916B46.xml
XMLDemo.sql - Prosew...\administrator (53))*
<Employee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<EmployeeID>4</EmployeeID>
<ContactInfo>
<FirstName>Rob</FirstName>
<MiddleName xsi:nil="true" />
<LastName>Walters</LastName>
</ContactInfo>
</Employee>
<Employee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<EmployeeID>130</EmployeeID>
<ContactInfo>
<FirstName>Rob</FirstName>
<MiddleName>T</MiddleName>
<LastName>Caron</LastName>
</ContactInfo>
</Employee>
Solution Explorer
100 %
Ready
Ln 1
Col 1
Ch 1
INS
Start
CH

```
--Ensure Columns With Null Values Display XSINIL
SELECT 1 AS Tag,
   NULL AS Parent,
   e.BusinessEntityID AS [Employee!1!EmployeeID!ELEMENT],
   NULL AS [ContactInfo!2!FirstName!ELEMENT],
   NULL AS [ContactInfo!2!MiddleName!ELEMENTXSINIL],--Null
Value
   NULL AS [ContactInfo!2!LastName!ELEMENT]
FROM HumanResources.Employee e INNER JOIN Person.Person c
   ON c.BusinessEntityID = e.BusinessEntityID
WHERE c.FirstName = 'Rob'
UNION ALL
SELECT 2 AS Tag,
   1 AS Parent,
   e.BusinessEntityID,
   c.FirstName,
   c.MiddleName,
   c.LastName
FROM HumanResources.Employee e INNER JOIN Person.Person c
   ON e.BusinessEntityID = c.BusinessEntityID
WHERE c.FirstName = 'Rob'
ORDER BY [Employee!1!EmployeeID!ELEMENT],
[ContactInfo!2!FirstName!ELEMENT]
FOR XML EXPLICIT;
```