**COMPLETE CODE FOR THIS ASSIGNMENT**

CREATE DATABASE OPENXMLTesting;

USE OPENXMLTesting;

CREATE TABLE XMLwithOpenXML(XMLwithOpenXML\_id INT IDENTITY PRIMARY KEY, XMLData XML);

INSERT INTO XMLwithOpenXML (XMLData)

SELECT CONVERT(XML, BulkColumn) AS BulkColumn

FROM OPENROWSET(BULK 'C:\Users\rdp\_user\Desktop\xmlTest.xml', SINGLE\_BLOB) AS x;

SELECT \* FROM XMLwithOpenXML;

-----------------

-- Declare Variables

DECLARE @DocHandle int;

DECLARE @XmlDocument NVARCHAR(1000);

-- THe XML Data below if the first entry in the results from first Query in Pt.1

SET @XmlDocument = '

<row>

<BusinessEntityID>18</BusinessEntityID>

<PersonType>EM</PersonType>

<NameStyle>0</NameStyle>

<FirstName>John</FirstName>

<MiddleName>L</MiddleName>

<LastName>Wood</LastName>

<EmailPromotion>2</EmailPromotion>

<Demographics>

<IndividualSurvey xmlns="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey">

<TotalPurchaseYTD>0</TotalPurchaseYTD>

</IndividualSurvey>

</Demographics>

<rowguid>FE21BDA7-9327-4D13-89CC-8CA5CEE8F21E</rowguid>

<ModifiedDate>2011-01-31T00:00:00</ModifiedDate>

</row>

';

EXEC sp\_xml\_preparedocument @DocHandle OUTPUT, @XmlDocument;

SELECT \* FROM OPENXML (@DocHandle, '/row/FirstName') WITH (FirstName VARCHAR(50));

EXEC sp\_xml\_removedocument @DocHandle;

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<TotalPurchaseYTD>0</TotalPurchaseYTD>

</IndividualSurvey>

</Demographics>

<rowguid>FE21BDA7-9327-4D13-89CC-8CA5CEE8F21E</rowguid>

<ModifiedDate>2011-01-31T00:00:00</ModifiedDate>

</row>

'; \*/

/\*

SELECT \* FROM OPENXML (@DocHandle, '/row/Demographics/IndividualSurvey/TotalPurchaseYTD') WITH (

BusinessEntityID IN

); \*/

SET @XmlDocument = '

<customers>

<Customer customerid="VINET" contactName="Paul Henriot">

<order orderid="10248" employeeid="5" orderdate="1996-07-04T00:00:00">

<orderDetail productid="11" quantity="12">Description 1</orderDetail>

<orderDetail productid="42" quantity="10">Description 2</orderDetail>

</order>

</Customer>

<Customer customerid="LILAS" contactName="Carlos Gonzales">

<order orderid="10283" employeeid="3" orderdate="1994-10-21T00:00:00">

<orderDetail productid="117" quantity="117">Description 3</orderDetail>

</order>

</Customer>

</customers>

';

EXEC sp\_xml\_preparedocument @DocHandle OUTPUT, @XmlDocument;

SELECT \* FROM OPENXML (@DocHandle, '/customers/Customer/order/orderDetail') WITH (

orderid INT '../@orderid', customerid VARCHAR(30) '../../@customerid', orderdate DATETIME '../@orderdate', productid INT '@productid',

quantity INT '@quantity', Descrp VARCHAR(20) '../OrderDetail'

);

EXEC sp\_xml\_removedocument @DocHandle;

**EXEC sp\_xml\_preparedocument @DocHandle OUTPUT, @XmlDocument;**

**SELECT \* FROM OPENXML (@DocHandle, '/row/ModifiedDate') WITH (**

**BusinessEntityID INT '../BusinessEntityID', FirstName VARCHAR(10) '../FirstName');**

**SELECT \* FROM OPENXML (@DocHandle, '/row/Demographics/IndividualSurvey/TotalPurchaseYTD') WITH (**

**);**

**EXEC sp\_xml\_removedocument @DocHandle;**

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/\* To Access the XML \*/

SELECT \* FROM Person.Person WHERE FirstName = 'John' For XML Path

<?xml version="1.0"?>

<!-- author: Ryan Woodward -->

<root>

<customers>

<!-- Here is a comment -->

<customer CustomerName="Captain America" CustomerId="C001">

<orders>

<order OrderId="10248" OrderDate="2012-07-04">

<orderdetail Quantity="5" ProductId="10"></orderdetail>

<orderdetail Quantity="12" ProductId="11"></orderdetail>

<orderdetail Quantity="10" ProductId="42"></orderdetail>

</order>

</orders>

<address> 123 W. Raum rd.</address>

</customer>

<customer CustomerName="Wonder Woman" CustomerId="C002">

<orders>

<order OrderId="10245" OrderDate="2011-07-04">

<orderdetail Quantity="19" ProductId="11"></orderdetail>

<orderdetail Quantity="25" ProductId="42"></orderdetail>

</order>

</orders>

<address> 3456 E. Leben Ave.</address>

</customer>

<customer CustomerName="Iron Man" CustomerId="C003">

<orders>

<order OrderId="10283" OrderDate="2012-08-16">

<orderdetail Quantity="3" ProductId="72"></orderdetail>

</order>

<address>123 S. Blieben Blvd</address>

</orders>

</customer>

</customers>

</root>

/\*CREATE TABLES WITH XML\*/

CREATE DATABASE OPENXMLTesting;

USE OPENXMLTesting;

CREATE TABLE XMLwithOpenXML(

XMLwithOpenXML\_id INT IDENTITY PRIMARY KEY,

XMLData XML, /\* XML is the data type used to hold XML data \*/

LoadedDateTime DATETIME

);

/\* INSERT Data into XML Table/DB\*/

INSERT INTO XMLwithOpenXML (XMLData, LoadedDatetime)

SELECT CONVERT(XML, BulkColumn) AS BulkColumn, GETDATE()

FROM OPENROWSET(BULK 'C:\Users\rdp\_user\Desktop\OpenXMLTesting.xml', SINGLE\_BLOB) AS x;

/\* OPENROWSET -> function provided SSMS, it allows for reading data from many sources, using SQL servers

BULK import capability.

BULK -> feature provides the ability to read files.

allows for data read as a SINGLE\_BLOB object.

SINGLE\_BLOB -> reads a file as a VARBINARY(max), aka variable-length binary data --> 1 -8000

CONVERT -> converting XML to SQL table.

\*/

SELECT \* FROM XMLwithOpenXML;

MY XML DOC

<?xml version="1.0"?>

<!-- author: Ryan Woodward -->

<root>

<bands>

<band bandName="Rammstein">

<members>

<member memberName="Till Lindemann" memberId="1001">

<position positionName="vocals" startDate="1993">

</position>

</member>

<member memberName="Richard Kruspe" memberId="1002">

<position positionName="Lead Guitar" startDate="1993">

</position>

</member>

<member memberName="Flake Lorenz" memberId="1003">

<position positionName="Keyboard" startDate="1993">

</position>

</member>

</members>

</band>

<bands>

<band bandName="ACDC">

<members>

<member memberName="Angus Young" memberId="201">

<position positionName="Lead Guitar" startDate="1977">

</position>

</member>

<member memberName="Brian Johnson" memberId="202">

<position positionName="vocals" startDate="1980">

</position>

</member>

<member memberName="Bon Scott" memberId="203">

<position positionName="vocals" startDate="1978">

</position>

</member>

</members>

</band>

</bands>

</root>

CREATE DATABASE MyBookCollection;

CREATE TABLE book(

book\_id INT IDENTITY PRIMARY KEY,

XMLData XML

);

INSERT INTO book(XMLData)

SELECT CONVERT (XML, BulkColumn) AS BulkColumn

FROM OPENROWSET(BULK 'C:\Users\rdp\_user\Desktop\rwoodwardXML.xml', SINGLE\_BLOB) AS x;

CREATE TABLE XMLwithOpenXML(

XMLwithOpenXML\_id INT IDENTITY PRIMARY KEY,

XMLData XML, /\* XML is the data type used to hold XML data \*/

LoadedDateTime DATETIME

);

/\* INSERT Data into XML Table/DB\*/

INSERT INTO XMLwithOpenXML (XMLData, LoadedDatetime)

SELECT CONVERT(XML, BulkColumn) AS BulkColumn, GETDATE()

FROM OPENROWSET(BULK 'C:\Users\rdp\_user\Desktop\OpenXMLTesting.xml', SINGLE\_BLOB) AS x;

<?xml version="1.0"?>

<!-- author: Ryan Woodward -->

<root>

<customers>

<!-- Here is a comment -->

<customer CustomerName="Captain America" CustomerId="C001">

<orders>

<order OrderId="10248" OrderDate="2012-07-04">

<orderdetail Quantity="5" ProductId="10"></orderdetail>

<orderdetail Quantity="12" ProductId="11"></orderdetail>

<orderdetail Quantity="10" ProductId="42"></orderdetail>

</order>

</orders>

<address> 123 W. Raum rd.</address>

</customer>

<customer CustomerName="Wonder Woman" CustomerId="C002">

<orders>

<order OrderId="10245" OrderDate="2011-07-04">

<orderdetail Quantity="19" ProductId="11"></orderdetail>

<orderdetail Quantity="25" ProductId="42"></orderdetail>

</order>

</orders>

<address> 3456 E. Leben Ave.</address>

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<customer CustomerName="Iron Man" CustomerId="C003">

<orders>

<order OrderId="10283" OrderDate="2012-08-16">

<orderdetail Quantity="3" ProductId="72"></orderdetail>

</order>

<address>123 S. Blieben Blvd</address>

</orders>

</customer>

</customers>

</root>

----------------------------------------------------------------

----------------------------------------------------------------

----------------------------------------------------------------

OPENXML, sp\_xml\_preparedocument, & sp\_xml\_removedocument

----------------------------------------------------------------

-- Declare Variables

DECLARE @DocHandle int;

DECLARE @XmlDocument NVARCHAR(1000);

-- giving variable a value

SET @XmlDocument = '

<customers>

<Customer customerid="VINET" contactName="Paul Henriot">

<order orderid="10248" customerid="VINET" employeeid="5" orderdate="1996-07-04T00:00:00">

<orderDetail productid="11" quantity="12"/>

<orderDetail productid="42" quantity="10"/>

</order>

</Customer>

<Customer customerid="LILAS" contactName="Carlos Gonzales">

<order orderid="10283" customerid="LILAS" employeeid="3" orderdate="1994-10-21T00:00:00">

<orderDetail productid="117" quantity="117"/>

</order>

</Customer>

</customers>

';

--Create an internal representation of the XML document, Stored procedure

EXEC sp\_xml\_preparedocument @DocHandle OUTPUT, @XmlDocument;

-- Execute the SELECT statement using the OPENXML rowset provider

SELECT \* FROM OPENXML (@DocHandle, '/customers/Customer') WITH (customerid VARCHAR(10), contactName VARCHAR(20));

--Execute the delete stored procedure

EXEC sp\_xml\_removedocument @DocHandle;