

Вывести значения полей [AddressID], [City] из таблицы [Person].[Address] и полей [StateProvinceID] и [CountryRegionCode] из таблицы [Person].[StateProvince] в виде xml, сохраненного в переменную. Формат xml должен соответствовать примеру:

```
<Addresses>
  <Address ID="532">
    <City>Ottawa</City>
    <Province ID="57">
      <Region>CA</Region>
    </Province>
  </Address>
  <Address ID="497">
    <City>Burnaby</City>
    <Province ID="7">
      <Region>CA</Region>
    </Province>
  </Address>
</Addresses>
```

Создать хранимую процедуру, возвращающую таблицу, заполненную из xml переменной представленного вида. Вызвать эту процедуру для заполненной на первом шаге переменной.

The screenshot displays the SQL Server Enterprise Manager interface. The left pane shows the 'Tables' folder expanded, listing various system and user tables. The center pane shows the SQL script for creating a stored procedure named 'XmlToTable'. The script takes an XML variable as input and inserts its data into a table. The right pane shows the 'Current connection parameters' for the connection 'ASUS-VIVOBOK-S-SC'.

SQL Script:

```
USE AdventureWorks2012;
GO

CREATE PROCEDURE XmlToTable
    @xml XML
AS
BEGIN
    SELECT
        Address.value('@ID', 'INT') AS [AddressID],
        Address.value('(City)[1]', 'NVARCHAR(30)') AS [City],
        Address.value('(Province/@ID)[1]', 'INT') AS [StateProvinceID],
        Address.value('(Province/Region)[1]', 'NVARCHAR(3)') AS [CountryRegionCode]
    FROM @xml.nodes('Addresses/Address') AS X(Address);
END;
GO

DECLARE @xml XML =
(SELECT
    [ADR].[AddressID] AS '@ID',
    [ADR].[City],
    [SP].[StateProvinceID] AS 'Province/@ID',
    [SP].[CountryRegionCode] AS 'Province/Region'
FROM [AdventureWorks2012].[Person].[Address] AS [ADR]
JOIN [AdventureWorks2012].[Person].[StateProvince] AS [SP] ON [ADR].[StateProvinceID] = [SP].[StateProvinceID])
```

Execution Results:

AddressID	City	StateProvinceID	CountryRegionCode
532	Ottawa	57	CA
497	Burnaby	7	CA
29781	Dunkerque	145	FR
24231	Venieres Le Buisson	177	FR
19637	Venieres Le Buisson	177	FR
15671	Saint-Denis	179	FR
13079	Seattle	79	US
21354	Les Ulis	177	FR
910	Miami	15	US
322	Portland	58	US
12037	Los Angeles	9	US
20437	Courbevoie	178	FR
21943	Paris	161	FR
17763	Stavanger	178	FR

The status bar at the bottom indicates: "Query executed successfully. ASUS-VIVOBOK-S-SQLEXPRESS ... AdventureWorks2012: 00:00:01 19615 rows".