

**Базы данных**  
**Лабораторная работа 3**  
**выполнил Орол Вадим, 751002,**  
**Вариант 6**

Вывести значения полей [CreditCardID], [CardType], [CardNumber] из таблицы [Sales].[CreditCard] в виде xml, сохраненного в переменную. Формат xml должен соответствовать примеру.

<CreditCards> <Card ID="1" Type="SuperiorCard" Number="33332664695310" /> <Card ID="2" Type="Distinguish" Number="55552127249722" /> </CreditCards>

```
DECLARE @xml XML;  
SET @xml = (  
    SELECT CreditCardID AS "@ID", CardType AS "@Type", CardNumber AS "@Number"  
    FROM Sales.CreditCard  
    FOR XML PATH ('Card'), ROOT ('CreditCards'));  
SELECT @xml;
```

100 %

Results Messages

(No column name)
1

```
<CreditCards>  
<Card ID="1" Type="SuperiorCard" Number="33332664695310" />  
<Card ID="2" Type="Distinguish" Number="55552127249722" />  
<Card ID="3" Type="ColonialVoice" Number="77778344838353" />  
<Card ID="4" Type="ColonialVoice" Number="77774915718248" />  
<Card ID="5" Type="Vista" Number="11114404600042" />  
<Card ID="6" Type="Distinguish" Number="55557132036181" />  
<Card ID="7" Type="Distinguish" Number="55553635401028" />  
<Card ID="8" Type="SuperiorCard" Number="33336081193101" />  
<Card ID="9" Type="Distinguish" Number="55553465625901" />  
<Card ID="10" Type="SuperiorCard" Number="33332126386493" />  
<Card ID="11" Type="SuperiorCard" Number="33335352517363" />  
<Card ID="12" Type="SuperiorCard" Number="33334316194519" />  
<Card ID="13" Type="Vista" Number="11119775847802" />  
<Card ID="14" Type="Distinguish" Number="55553287727410" />  
<Card ID="15" Type="SuperiorCard" Number="33336866065599" />  
<Card ID="16" Type="Vista" Number="11111985451507" />  
<Card ID="17" Type="ColonialVoice" Number="77771220960729" />  
<Card ID="18" Type="ColonialVoice" Number="77773971683137" />  
<Card ID="19" Type="ColonialVoice" Number="77779803886862" />  
<Card ID="20" Type="SuperiorCard" Number="33332150058339" />  
<Card ID="21" Type="SuperiorCard" Number="33336474467548" />  
<Card ID="22" Type="ColonialVoice" Number="77772030376004" />  
<Card ID="23" Type="Vista" Number="11117174633569" />  
<Card ID="24" Type="Vista" Number="11111658051128" />  
<Card ID="25" Type="Vista" Number="11119905436490" />  
<Card ID="26" Type="Distinguish" Number="55554195847998" />  
<Card ID="27" Type="SuperiorCard" Number="33333837392825" />  
<Card ID="28" Type="SuperiorCard" Number="33337040086193" />  
<Card ID="29" Type="SuperiorCard" Number="3333594431481" />  
<Card ID="30" Type="Vista" Number="11111281844021" />  
<Card ID="31" Type="Vista" Number="11112040199986" />  
<Card ID="32" Type="Distinguish" Number="55552506272209" />  
<Card ID="33" Type="SuperiorCard" Number="33335588002748" />  
<Card ID="34" Type="Vista" Number="11115274414475" />  
<Card ID="35" Type="SuperiorCard" Number="3333028993903" />  
<Card ID="36" Type="Vista" Number="1111169772836" />  
<Card ID="37" Type="Distinguish" Number="55551349750603" />  
<Card ID="38" Type="Distinguish" Number="55555420711099" />  
<Card ID="39" Type="Vista" Number="11117546738833" />  
<Card ID="40" Type="Distinguish" Number="55555841603354" />  
<Card ID="41" Type="Vista" Number="11113757706549" />  
<Card ID="42" Type="Distinguish" Number="55555053963314" />  
<Card ID="43" Type="SuperiorCard" Number="33332773200339" />  
<Card ID="44" Type="ColonialVoice" Number="77779171924785" />  
<Card ID="45" Type="Distinguish" Number="55551983685258" />  
<Card ID="46" Type="SuperiorCard" Number="33331306076760" />  
<Card ID="47" Type="Distinguish" Number="55551566702747" />  
<Card ID="48" Type="SuperiorCard" Number="33338676321482" />  
<Card ID="49" Type="SuperiorCard" Number="33337796706807" />  
<Card ID="50" Type="ColonialVoice" Number="77776755686502" />  
<Card ID="51" Type="SuperiorCard" Number="33337051999262" />
```

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

```
CREATE PROCEDURE dbo.GetCreditCards(@CreditCardsXml XML)
AS
BEGIN
    SELECT
        x.value('@ID', 'INT') AS CreditCardID,
        x.value('@Type', 'VARCHAR(50)') AS CardType ,
        x.value('@Number', 'VARCHAR(25)') AS CardNumber
    FROM @CreditCardsXML.nodes('/CreditCards/Card') XmlData(x);
END;

DECLARE @xml XML;
SET @xml = (
    SELECT CreditCardID AS "@ID", CardType AS "@Type", CardNumber AS "@Number"
    FROM Sales.CreditCard
    FOR XML PATH ('Card'), ROOT ('CreditCards'));

EXEC dbo.GetCreditCards @xml;
```

Results

Messages

	CreditCardID	CardType	CardNumber
1	1	SuperiorCard	33332664695310
2	2	Distinguish	55552127249722
3	3	ColonialVoice	77778344838353
4	4	ColonialVoice	77774915718248
5	5	Vista	11114404600042
6	6	Distinguish	55557132036181
7	7	Distinguish	55553635401028
8	8	SuperiorCard	33336081193101