

Задание №1

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

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

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

Создание хранимой процедуры:

```
5 -- create a stored procedure for filling a table with XML values
6 create procedure Sales.ReadCardsFromXML @xmlValues XML
7 as
8     select CreditCardID = xmlNode.value(N'@ID', 'int')
9           , CardType = xmlNode.value(N'@Type', 'nvarchar(50)')
10          , CardNumber = xmlNode.value(N'@Number', 'nvarchar(25)')
11     from @xmlValues.nodes(N'/CreditCards/Card') as XML(xmlNode);
12 go
```

Messages

Commands completed successfully.

Completion time: 2020-11-01T19:25:30.2106753+03:00

Выборка значений из таблицы в XML:

```

16  -- select values into XML
17  declare @xmlRes XML;
18
19  set @xmlRes =
20      (select CreditCardID as N'@ID'
21          , CardType as N'@Type'
22          , CardNumber as N'@Number'
23          from Sales.CreditCard
24          for XML path(N'Card'), root(N'CreditCards'));
25
26  select @xmlRes;
27  -----
28
29  -- exec the procedure to check

```

121 %

Results Messages

(No column name)	
1	<CreditCards><Card ID="1" Type="SuperiorCard" Nu...

```
1 <CreditCards>
2   <Card ID="1" Type="SuperiorCard" Number="33332664695310" />
3   <Card ID="2" Type="Distinguish" Number="55552127249722" />
4   <Card ID="3" Type="ColonialVoice" Number="77778344838353" />
5   <Card ID="4" Type="ColonialVoice" Number="77774915718248" />
6   <Card ID="5" Type="Vista" Number="11114404600042" />
7   <Card ID="6" Type="Distinguish" Number="55557132036181" />
8   <Card ID="7" Type="Distinguish" Number="55553635401028" />
9   <Card ID="8" Type="SuperiorCard" Number="33336081193101" />
10  <Card ID="9" Type="Distinguish" Number="55553465625901" />
11  <Card ID="10" Type="SuperiorCard" Number="33332126386493" />
12  <Card ID="11" Type="SuperiorCard" Number="33335352517363" />
13  <Card ID="12" Type="SuperiorCard" Number="33334316194519" />
14  <Card ID="13" Type="Vista" Number="11119775847802" />
15  <Card ID="14" Type="Distinguish" Number="55553287727410" />
16  <Card ID="15" Type="SuperiorCard" Number="33336866065599" />
17  <Card ID="16" Type="Vista" Number="11111985451507" />
18  <Card ID="17" Type="ColonialVoice" Number="77771220960729" />
19  <Card ID="18" Type="ColonialVoice" Number="77773971683137" />
20  <Card ID="19" Type="ColonialVoice" Number="77779803886862" />
21  <Card ID="20" Type="SuperiorCard" Number="33332150058339" />
22  <Card ID="21" Type="SuperiorCard" Number="33336474467548" />
23  <Card ID="22" Type="ColonialVoice" Number="77772030376004" />
24  <Card ID="23" Type="Vista" Number="11117174633569" />
25  <Card ID="24" Type="Vista" Number="11111658051128" />
26  <Card ID="25" Type="Vista" Number="11119905436490" />
27  <Card ID="26" Type="Distinguish" Number="55554195847998" />
28  <Card ID="27" Type="SuperiorCard" Number="33333837392825" />
29  <Card ID="28" Type="SuperiorCard" Number="33337040086193" />
30  <Card ID="29" Type="SuperiorCard" Number="33333594431481" />
31  <Card ID="30" Type="Vista" Number="11111281844021" />
32  <Card ID="31" Type="Vista" Number="11112040199986" />
33  <Card ID="32" Type="Distinguish" Number="55552506272209" />
34  <Card ID="33" Type="SuperiorCard" Number="33335588002748" />
35  <Card ID="34" Type="Vista" Number="11115274414475" />
36  <Card ID="35" Type="SuperiorCard" Number="33333028993903" />
37  <Card ID="36" Type="Vista" Number="1111169772836" />
38  <Card ID="37" Type="Distinguish" Number="55551349750603" />
39  <Card ID="38" Type="Distinguish" Number="55555420711099" />
40  <Card ID="39" Type="Vista" Number="11117546738833" />
41  <Card ID="40" Type="Distinguish" Number="55555841603354" />
42  <Card ID="41" Type="Vista" Number="11113757706549" />
43  <Card ID="42" Type="Distinguish" Number="55555053963314" />
44  <Card ID="43" Type="SuperiorCard" Number="33332773200339" />
45  <Card ID="44" Type="ColonialVoice" Number="77779171924785" />
46  <Card ID="45" Type="Distinguish" Number="55551983685258" />
47  <Card ID="46" Type="SuperiorCard" Number="33331306076760" />
48  <Card ID="47" Type="Distinguish" Number="55551566702747" />
```

Выполнение процедуры с полученным XML:

```
16 -- select values into XML
17 declare @xmlRes XML;
18
19 set @xmlRes =
20 (select CreditCardID as N'@ID'
21      , CardType as N'@Type'
22      , CardNumber as N'@Number'
23      from Sales.CreditCard
24      for XML path(N'Card'), root(N'CreditCards'));
25
26 select @xmlRes;
27 -----
28
29 -- exec the procedure to check
30 exec Sales.ReadCardsFromXML @xmlRes
31 go
32
```

121 %

Results Messages

(No column name)

1 <CreditCards><Card ID="1" Type="SuperiorCard" Nu...

	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
9	9	Distinguish	55553465625901
10	10	SuperiorCard	33332126386493
11	11	SuperiorCard	33335352517363
12	12	SuperiorCard	33334316194519
13	13	Vista	11119775847802
14	14	Distinguish	55553287727410
15	15	SuperiorCard	33336866065599
16	16	Vista	11111985451507
17	17	ColonialVoice	77771220960729
18	18	ColonialVoice	77773971683137
19	19	ColonialVoice	77779803886862
20	20	SuperiorCard	33332150058339
21	21	SuperiorCard	33336474467548
22	22	ColonialVoice	77772030376004
23	23	Vista	11117174633569
24	24	Vista	11111658051128
25	25	Vista	11119905436490
26	26	Distinguish	55554195847998
27	27	SuperiorCard	33333837302825

Query executed successfully.