

CS 1032 期中复习

讲师

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Time: 10:00 am (10:00 EST) - 12:00 noon

Campus Location: (by student name - **Last Name**, First Name)

Natural Science (NS) 145

FROM: **Abbasi**, Zarish to: **Swiergosz**, Tobiasz

Middlesex College (MC) 110

FROM: **Tai**, Matthew to: **Zuskan**, Geoffrey

(以上信息来源: OWL, 请自行核实准确性)

考试内容

XML, XSD

Microsoft Word, Microsoft Excel

Experiencing MIS 课本 Chapter 1, 2, 3, 4, 6, Application Extension 3a

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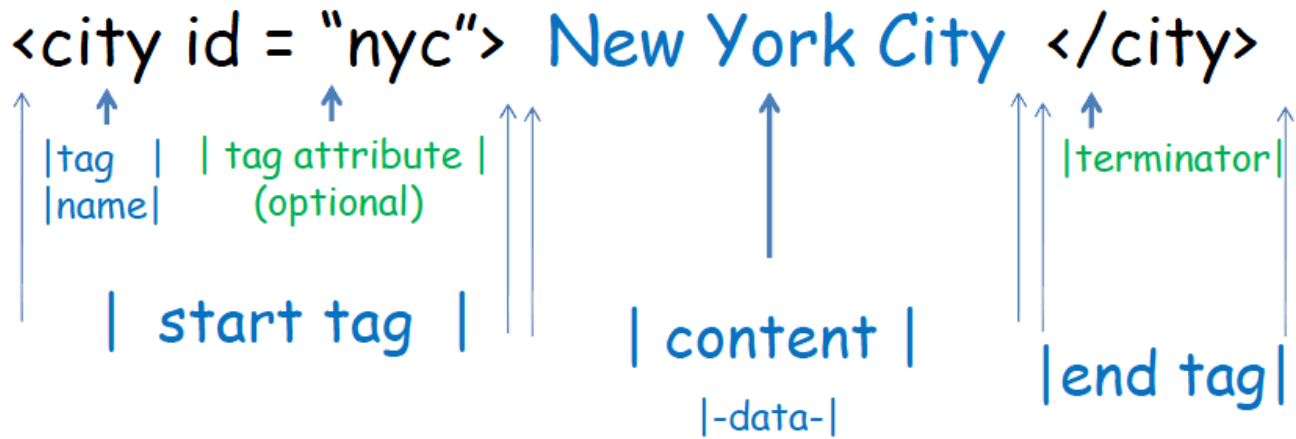
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资源

XML, XSD 实例 (一)、(二) 答案

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XML, XSD 概念复习



Tag Name:

在 XSD 中为预先定义好的，例: `xsd:element`, `xsd:complexType`

在 XML 中为你在 XSD 中用 `<xsd:element name="TagName">` 语句所定义的

限制：首字母不得为数字；区分大小写；不得以“XML”开头；不得包含空格及特殊符号，下列除外：_（下划线）-（短横）.（句号）

Tag Attribute 需要掌握的用法：

`name="TagName", minOccurs="0", maxOccurs="unbounded", type="xsd:string", type="xsd:integer"`

Content:

数据内容。可以包括空格。

以下符号需用“&xxx”代替：

符号	代替字符
& (ampersand)	&
< (less than)	<
> (greater than)	>
' (apostrophe)	'
" (quote)	"

Comments: `<!-- This is a comment -->`

XML, XSD 实例 (一)

Create a complex XML Schema Definition

Create an XML Schema Definition (an .xsd file) for a document that will store specific data regarding the Box Office information on the top five (5) films in each list.

Each list will always contain five (5) entries, no more than five (5) and no less than five (5) is allowed.

Using the data in the All-Time Box-Office Top 100 Films (image: BoxOffice.jpg) create an XML Schema document.

The schema document needs to be designed to store the following information for each movie:

- List Identification (which list [unadjusted – adjusted –worldwide] for this entry)
- Ranking (position i.e. 1 or 2 or 3 etc.) of this entry in this list
- Name of the Movie
- Year Movie was Released

Note: each of these data points (Rank, Name and Year) are separate even though they appear on a single line in the attached image.

ALL-TIME BOX-OFFICE TOP 100 FILMS (through to mid-July 2015)		
TOP 100 FILMS OF ALL-TIME (Domestic Gross)* (Unadjusted for Inflation)	TOP 100 FILMS OF ALL-TIME (Domestic Gross)* (Adjusted for Inflation)	TOP 100 FILMS OF ALL-TIME (Worldwide Gross)*
<ol style="list-style-type: none">1. <i>Avatar</i> (2009)2. <i>Titanic</i> (1997)3. <i>Marvel's The Avengers</i> (2012)4. <i>Jurassic World</i> (2015)5. <i>The Dark Knight</i> (2008)6. <i>Star Wars: Episode I - The Phantom Menace</i> (1999)7. <i>Star Wars: Episode IV - A New Hope</i>	<ol style="list-style-type: none">1. ★ <i>Gone With the Wind</i> (1939)2. ★ <i>Star Wars: Episode IV - A New Hope</i> (1977)3. <i>The Sound of Music</i> (1965)4. ★ <i>E. T. The Extra-Terrestrial</i> (1982)5. <i>Titanic</i> (1997)6. <i>The Ten Commandments</i> (1956)7. ★ <i>Law</i> (1975)	<ol style="list-style-type: none">1. <i>Avatar</i> (2009)2. <i>Titanic</i> (1997)3. <i>Furious 7</i> (2015)4. <i>Marvel's The Avengers</i> (2012)5. <i>Jurassic World</i> (2015)6. <i>Avengers: Age of Ultron</i> (2015)7. <i>Harry Potter and the Deathly Hallows, Part 2</i> (2011)

```
<?xml version="1.0" encoding="UTF-8"?>  
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" >
```

```
</xsd:schema >
```

Create an XML document (an .xml file) based on the Schema Definition. The XML document must contain the specific data regarding the Box Office information on the top five (5) films in each list.

```
<?xml version="1.0" encoding="UTF-8"?>
```

XML, XSD 实例 (二)

Create a complex XML Schema Definition

Create an XML Schema Definition (an .xsd file) for a document that will store specific data regarding the 2015 Grammy Awards nominees and winners by genre and category.

The schema document needs to be designed to store **ALL** the following information **as data**:

- Title of the data (2015 Annual Grammy Awards and 57th)
- Genre of the associated categories (i.e. General, Pop, Rock, etc.)
- Award Category (i.e. Record of the Year, Album of the year, etc.)
- Song Title
- Artist or Artists (i.e. Kevin Kadish and Meghan Trainor)
- Winner (note: the underlined song is the winner in each category)

Note: Each category will always contain five (5) entries, no more than five (5) and no less than five (5) is allowed.

NOTE: You are expected to include a complex type element titled 'song' as a complex type that has as its children (inside - under - however you want to think of it) the song title and the song's artist(s).

2015 Annual Grammy Awards (57th)
General
Record of the Year <u>"StaywithMe"(DarkchildVersion)–SamSmith</u> "Fancy" – Iggy Azalea, Charli XCX "Chandelier" – Sia "Shake It Off" – Taylor Swift "All About That Bass" – Meghan Trainor
Album of the Year <u>Morning Phase – Beck</u> Beyoncé – Beyoncé x – Ed Sheeran In the Lonely Hour – Sam Smith G I R L – Pharrell Williams
Song of the Year <u>"StaywithMe"(DarkchildVersion) -JamesNapier,WilliamPhillips</u> "All About That Bass" - Kevin Kadish and Meghan Trainor "Chandelier" - Sia Furler and Jesse Shatkin "Shake It Off" - Max Martin, Shellback and Taylor Swift "Take Me to Church" - Andrew Hozier-Byrne

<p>Pop</p> <p>Best Pop Solo Performance</p> <p><u>"Happy (Live)" – Pharrell Williams</u></p> <p>"All of Me (Live)" – John Legend</p> <p>"Chandelier" – Sia</p> <p>"Stay With Me (Darkchild Version)" – Sam Smith</p> <p>"Shake It Off" – Taylor Swift</p>
<p>Best Pop Duo/Group Performance</p> <p><u>"Say Something" – A Great Big World and Christina Aguilera</u></p> <p>"Fancy" – Iggy Azalea featuring Charli XCX</p> <p>"A Sky Full of Stars" – Coldplay</p> <p>"Bang Bang" – Jessie J, Ariana Grande, and Nicki Minaj</p> <p>"Dark Horse" – Katy Perry featuring Juicy J</p>
<p>Rock</p> <p>Best Rock Performance</p> <p><u>"Lazaretto" – Jack White</u></p> <p>"Gimme Something Good" – Ryan Adams</p> <p>"Do I Wanna Know?" – Arctic Monkeys</p> <p>"Blue Moon" – Beck</p> <p>"Fever" – The Black Keys</p>
<p>Best Rock Song</p> <p><u>"Ain't It Fun" – Hayley Williams and Taylor York</u></p> <p>"Blue Moon" – Beck Hansen</p> <p>"Fever" – Dan Auerbach, Patrick Carney and Brian Burton</p> <p>"Gimme Something Good" – Ryan Adams</p> <p>"Lazaretto" – Jack White</p>

```
<?xml version="1.0" encoding="UTF-8"?>  
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" >
```

```
</xsd:schema >
```


Create an XML document (an .xml file) based on the Schema Definition.

```
<?xml version="1.0" encoding="UTF-8"?>
```

XML, XSD 实例 (三)

(10 Marks) Create an XML Schema definition for a document type that will store data describing a movie shown at a theatre.

The document must be able to store the data describing at least one movie.

The data describing a movie consists of:

- the name of the movie
- the release date of the movie
 - consisting of:
 - the day, month & year
- the total attendance to date
- the cast,
 - the details for each cast member are:
 - the character played by the actor in the movie
 - the character's name in the movie
 - the actor's real name

A movie must have at least one cast member.

Use the symbol “<cs>” as a short form for the tags

<xsd:complexType>

<xsd:sequence>

and the symbol “</cs>” as a short form for the tags

</xsd:complexType>

</xsd:sequence> in your answer.

(10 marks) Create an XML document to store the data given in the following table. This XML document does NOT use the schema definition you created in the previous question.

Movie	Director	Cast	Rental \$'s	Awards
Zoom	Hewitt	Allen	5.29M	1
		Cox		
		Chase		
Invincible	Core	Wahlberg	31.1M	2

Your document must group the Cast information for a movie.

Microsoft Excel 概念复习

EXCEL的基本概念:

- ▶ 单元格 定位、内容、公式、格式
- ▶ 引用 - 相对引用与绝对引用
- ▶ 函数 - SUM, AVERAGE, MAX, COUNT, COUNTIF, HLOOKUP, VLOOKUP, PMT

单元格

- ▶ 定位: A1 A1:C3 Sheet1!A1 Sheet2!A1:C3
 - ▶ 引用 (相对位置): A1=A2
 - ▶ 引用 (绝对位置): A1=\$A\$2 A1=\$A2 A1=A\$2
- ▶ 内容: 字符串 或 公式
- ▶ 公式: A1=B2, A4=SUM(A1:A3), A1=Sheet2!\$A\$3
- ▶ 公式的自动套用
- ▶ 格式: 数据类型、小数位、边框

SUM、AVERAGE、MAX 函数

- ▶ 语法:
 - ▶ SUM(number1,number2,...)
 - ▶ AVERAGE(number1,number2,...)
 - ▶ MAX(number1,number2,...)

CONVERT 函数

- ▶ 语法:
CONVERT(number,from_unit,to_unit)
 - number: 是 from_units 中要转换的值.
 - from_unit: 是数字的单位.
 - to_unit: 是结果的单位.
- ▶ 例子: E6=CONVERT(D6,"km","mi") G6=CONVERT(F6,"l","gal")

COUNT、COUNTIF 函数

- ▶ 语法: COUNT(value1,value2,...)
- ▶ 语法: COUNTIF(range,criteria)
 - ▶ 例子: L27=COUNTIF(L6:L20,">37.59")

PMT 函数

- ▶ 语法:
 - ▶ PMT(rate, nper, pv)
 - ▶ rate 贷款利率。(贷款年利率/12)
 - ▶ Nper 该项贷款的付款总数。(贷款年数*12)
 - ▶ pv 现值, 或一系列未来付款额现在所值的总额。(贷款本金)

IF 函数

- ▶ 语法: IF(logical_test, value_if_true, [value_if_false])

HLOOKUP 水平查找函数（VLOOKUP垂直查找函数同理）

HLOOKUP(lookup_value, table_array, row_index_num, [range_lookup])

HLOOKUP 函数语法具有下列参数：

- **Lookup_value** 必需。要在表格的第一行中查找的值。Lookup_value 可以是数值、引用或文本字符串。
- **Table_array** 必需。在其中查找数据的信息表。使用对区域或区域名称的引用。
Table_array 的第一行的数值可以为文本、数字或逻辑值。
文本不区分大小写。
- **Row_index_num** 必需。table_array 中将返回的匹配值的行号。row_index_num 为 1 时，返回 table_array 的第一行的值；row_index_num 为 2 时，返回 table_array 第二行中的值，依此类推。如果 row_index_num 小于 1，则 HLOOKUP 返回 错误值 #VALUE!；如果 row_index_num 大于 table_array 的行数，则 HLOOKUP 返回 错误值 #REF!。
- **Range_lookup** 可选。一个逻辑值，指定希望 HLOOKUP 查找精确匹配值还是近似匹配值。如果为 TRUE 或省略，则返回近似匹配值。换言之，如果找不到精确匹配值，则返回小于 lookup_value 的最大值。如果为 False，则 HLOOKUP 将查找精确匹配值。如果找不到精确匹配值，则返回错误值 #N/A。

参数详解：

Lookup_value，是需要在目标表格中查找的值，可以是自己定义的数值或者字符串，或者是引用的其他单元格中的数值或者字符串或者计算结果。

Table_array，是待查找的目标表格（格式：A1:C5 或 Sheet1!A1:C5）

Row_index_num，是返回结果的目标行号。若你需要查找表格中第一行的内容并返回第二行的结果，此处应为2。

Range_lookup，值为True或False。默认值为True。当值设定为False时，精确匹配查找值。若在查找范围中找不到查找值会返回#N/A (Not Available)。当值设定为True时，模糊匹配查找值。在查找范围中找不到查找值时返回小于查找值的最大值所对应的匹配项。

公式应用实例：

数据：

	A	B	C
1	车轴	轴承	螺钉
2	4	4	9
3	5	7	10%
4	6	8	1.1

应用：

	公式	说明	结果
	=HLOOKUP("车轴", A1:C4, 2, TRUE)	在首行查找车轴，并返回同列（列 A）中第 2 行的值。	4
	=HLOOKUP("轴承", A1:C4, 3, FALSE)	在首行查找轴承，并返回同列（列 B）中第 3 行的值。	7
	=HLOOKUP("螺栓", A1:C4, 4)	在首行查找螺栓，并返回同列（列 C）中第 4 行的值。	1.1

Microsoft Excel 例题讲解

例一、

	A	B	C	D	E
1	Player	Games	Goals	Assists	Total Points
2	Patrick Maroon	10	10	11	21
3	Justin Taylor	10	6	3	9
4	Jadran Beljo	4	4	5	9
5	Adam Perry	10	3	7	10
6					
7	Highest # Points	10			
8	# Players > 10 total points				

Which of the following formulas would be used in E2 to calculate the player's total points and can be copied to cells E3 to E5. (Total points calculated by adding the player's Goals & Assists.)

- A) =C2+D2
- B) =C\$2+D\$2
- C) =\$C\$2+\$D\$2
- D) =C2+\$D\$2

Which of the following formula would appear in B7, to calculate the highest number of total point scored by a London Knight's player.

- A) =max(E2:E5)
- B) =highest(E2:E5)
- C) =largest(E2:E5)

Which of the following formula would appear in B8, that would calculate the number of London Knight's players who scored over 10 total points.

- A) =countif(E2:E5,">10")
- B) =count(E2:E5)
- C) =countif(E2:E5,>10)

例二、

Using the following spreadsheet, answer the following questions

	A	B	C	D	E
1					
2	airport name	London Heathrow Airport, London			
3	# of gates in the terminals	88			
4	# of runways at the airport	12			
5	total annual passengers using the airport	63,487,136			
6	# of airlines flying to/from the airport	27			
7					

(2 marks) Create a formula to be placed in cell B10. This formula will display the message "enough gates" when the number of gates in the terminals exceeds 50. The formula will display the message "not enough gates" otherwise.

(2 marks) Create a formula to be placed in cell B11. This formula will display the airport name if the number of gates in the terminals is greater than 40 or the number of runways at the airport is greater than or equal to 10. Display the message "airport not large enough" otherwise.

(3 marks) Create a formula to be placed in cell B12. This formula will display the airport name if the number of airlines flying to/from the airport is between 10 and 15 (inclusive) and the number of runways at the airport is between 4 and 8 (inclusive). Display the message "not a mid size airport" otherwise.

(4 marks) Create a formula to be placed in cell B13. This formula will display the name of the airport if the total annual number of passengers using the airport is less than 32,000,000. The formula will also display the name of the airport if the number of airlines flying to/from the airport is 11 and the number of runways at the airport is 6. Display the message "wrong airport" otherwise.

例三、

The following Questions use the spreadsheet in the screen capture given below. The spreadsheet contains data regarding the number of passengers that traveled through 10 airports in 2003.

	A	B	C	D	E
1	2003 Airport Statistics				
2					
3	Code	Airport	Location	# of Passengers	
4					
5	LHR	London Heathrow	London	63,487,136	
6	ATL	Hartsfield-Jackson	Atlanta	79,086,792	
7	ORD	O'Hare	Chicago	69,508,672	
8	LAX	Los Angeles	Los Angeles	54,982,838	
9	AMS	Schiphol	Amsterdam	39,960,400	
10	DFW	Dallas-Fort Worth	Dallas/Fort Worth	53,253,607	
11	DEN	Denver	Denver	37,505,138	
12	FRA	Frankfurt	Frankfurt	48,351,664	
13	HND	Tokyo	Tokyo	62,876,269	
14	CDG	Charles De Gaulle	Paris	48,220,436	
15					
16			Maximum	79,086,792	
17			Average		
18					
19	# of airports with above average # of passengers				
20					
21		Airport Code	FRA		
22					
23	Largest # of passengers for LHR, HND and AMS				
24					

(1 mark) Create a formula to be placed in cell D17. This formula will compute the average of the numbers in column D rows 5 through 14. This average will be the average number of passengers traveling through the 10 airports.

(2 marks) Create a formula to be placed in cell E5 and then copied into cells E6 through E14. This formula will compute the difference between the maximum number of passengers who passed through any of the airports (cell D16) and the number of passengers that passed through the airport represented in the row containing the formula. For example, the value that will be displayed in cell E5 by the formula is 15,599,656 (79,086,792 – 63,487,136).

(4 marks) Create a set of formulas that will compute the number of airports with above average numbers of passengers. The number of such airports will be displayed in cell D19.

Explain how your set of formulas would be used to solve this problem. Assume that the average number of passengers traveling through the 10 airports is stored in cell D17.

(4 marks) Create a formula to be placed in cell D21. This formula will display the number of passengers that passed through an airport. The airport code for the airport in question is stored in cell C21. This formula must use a single call to the VLOOKUP function that looks up the airport code in cell C21 and displays the number of passengers that passed through that airport. The function call must work when any of the codes for the 10 airports are stored in cell C21.

Let the cell display the standard “#N/A” error if the airport code in cell C21 is not found among the airports.

(3 marks) Create a formula to be placed in cell D23. This formula will display the largest number of passengers to pass through the airports with codes LHR, HND and AMS. Your answer to this question must only use calls to the IF function. You may NOT use the MAX function as part of your answer. You do not have to use the airport codes LHR, HND and AMS in your answer, just use the cell references for the numbers of passengers for these three airports.

XML, XSD 实例（一）、（二）答案

实例（一）XSD:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:element name="FilmRank">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="3" maxOccurs="3" name="List">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="ListName"></xsd:element>
              <xsd:element minOccurs="5" maxOccurs="5" name="Film">
                <xsd:complexType>
                  <xsd:sequence>
                    <xsd:element name="Ranking" type="xsd:integer"></xsd:element>
                    <xsd:element name="Name" type="xsd:string"></xsd:element>
                    <xsd:element name="Year" type="xsd:integer"></xsd:element>
                  </xsd:sequence>
                </xsd:complexType>
              </xsd:element>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

实例（一）XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<FilmRank xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:noNamespaceSchemaLocation="FileName.xsd">
  <List>
    <ListName>TOP 100 FILMS OF ALL-TIME (Domestic Gross)* (Unadjusted for Inflation)</ListName>
    <Film>
      <Ranking>1</Ranking>
      <Name>Avatar</Name>
      <Year>2009</Year>
    </Film>
    <Film>
      <Ranking>2</Ranking>
      <Name>Titanic</Name>
      <Year>1997</Year>
    </Film>
    <Film>
      <Ranking>3</Ranking>
      <Name>Marvel's The Avengers</Name>
      <Year>2012</Year>
    </Film>
    <Film>
      <Ranking>4</Ranking>
```

```

        <Name>Jurassic World</Name>
        <Year>2015</Year>
    </Film>
    <Film>
        <Ranking>5</Ranking>
        <Name>The Dark Knight</Name>
        <Year>2008</Year>
    </Film>
</List>
<List>
    <ListName>TOP 100 FILMS OF ALL-TIME (Domestic Gross)* (Adjusted for Inflation)</ListName>
    <Film>
        <Ranking>1</Ranking>
        <Name>Gone With the Wind</Name>
        <Year>1939</Year>
    </Film>
    <Film>
        <Ranking>2</Ranking>
        <Name>Stars Wars: Episode IV - A New Hope</Name>
        <Year>1977</Year>
    </Film>
    <Film>
        <Ranking>3</Ranking>
        <Name>The Sound of Music</Name>
        <Year>1965</Year>
    </Film>
    <Film>
        <Ranking>4</Ranking>
        <Name>E. T. The Extra-Terrestrial</Name>
        <Year>1982</Year>
    </Film>
    <Film>
        <Ranking>5</Ranking>
        <Name>Titanic</Name>
        <Year>1997</Year>
    </Film>
</List>
<List>
    <ListName>TOP 100 FILMS OF ALL-TIME (Worldwide Gross)*</ListName>
    <Film>
        <Ranking>1</Ranking>
        <Name>Avatar</Name>
        <Year>2009</Year>
    </Film>
    <Film>
        <Ranking>2</Ranking>
        <Name>Titanic</Name>
        <Year>1997</Year>
    </Film>
    <Film>
        <Ranking>3</Ranking>
        <Name>Furious 7</Name>
        <Year>2015</Year>
    </Film>
    <Film>
        <Ranking>4</Ranking>

```

```

        <Name>Marvel's The Avengers</Name>
        <Year>2012</Year>
    </Film>
    <Film>
        <Ranking>5</Ranking>
        <Name>Jurassic World</Name>
        <Year>2015</Year>
    </Film>
</List>
</FilmRank>

```

实例（二）XSD:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <xsd:element name="root">
        <xsd:complexType>
            <xsd:sequence>
                <xsd:element name="chartName" type="xsd:string"/></xsd:element>
                <xsd:element name="genre" maxOccurs="unbounded">
                    <xsd:complexType>
                        <xsd:sequence>
                            <xsd:element name="genreName" type="xsd:string"/></xsd:element>
                            <xsd:element name="awardCategory" maxOccurs="unbounded">
                                <xsd:complexType>
                                    <xsd:sequence>
                                        <xsd:element name="awardCategoryName" type="xsd:string"/></xsd:element>
                                        <xsd:element name="winner">
                                            <xsd:complexType>
                                                <xsd:sequence>
                                                    <xsd:element name="winnerTitle" type="xsd:string"/></xsd:element>
                                                    <xsd:element name="winnerArtists" type="xsd:string" maxOccurs="unbounded"/></xsd:element>
                                                </xsd:sequence>
                                            </xsd:complexType>
                                        </xsd:element>
                                    </xsd:sequence>
                                </xsd:complexType>
                            </xsd:element>
                        </xsd:sequence>
                    </xsd:complexType>
                </xsd:element>
                <xsd:element name="song" minOccurs="4" maxOccurs="4">
                    <xsd:complexType>
                        <xsd:sequence>
                            <xsd:element name="songTitle" type="xsd:string"/></xsd:element>
                            <xsd:element name="songArtists" type="xsd:string" maxOccurs="unbounded"/></xsd:element>
                        </xsd:sequence>
                    </xsd:complexType>
                </xsd:element>
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>
</xsd:schema>

```

实例（二）XML:

```
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      ☐ <song>
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      ☐ <song>
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