

GeneXus for Students Analyst Exam – v17

Reality: Advertising Agency.

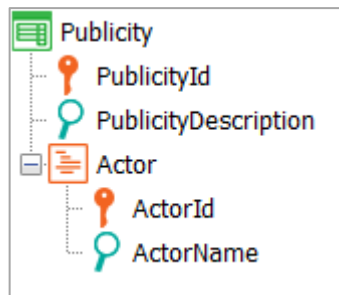
About multiple choice questions:

- There is only one correct option.
- In this exam, NO points are deducted for incorrect answers.

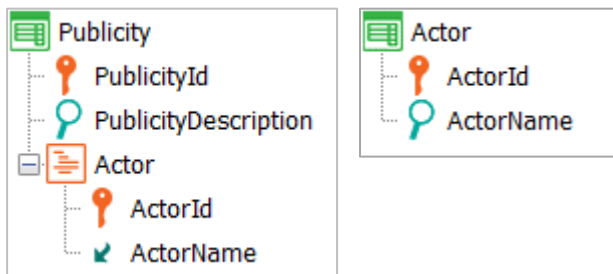
1) A GeneXus application is needed for an Advertising Agency.

Knowing that several actors (Actor) work in an advertisement (Publicity) and that an actor can appear in several advertisements, determine the transaction design that you consider correct to model the described reality.

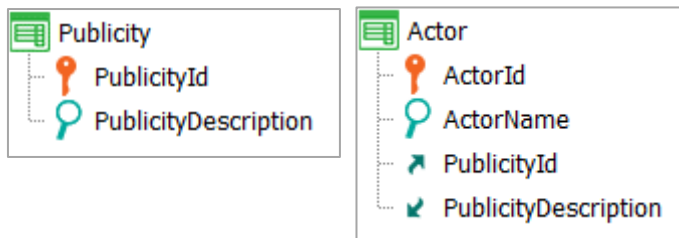
1.1 –



1.2 –



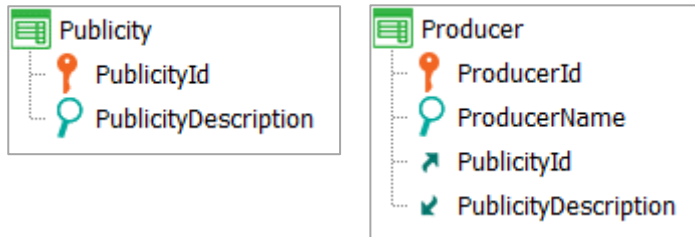
1.3 –



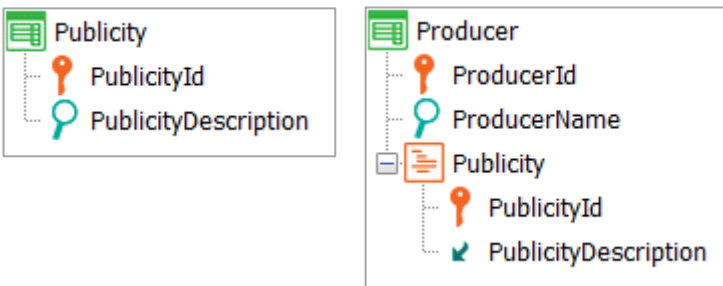
1.4 – None of the above options is correct.

- 2) Knowing that every advertisement (Publicity) has a producer (Producer) in charge, and that every producer is in charge of several advertisements, select the transaction design you consider correct to adequately model the reality described.

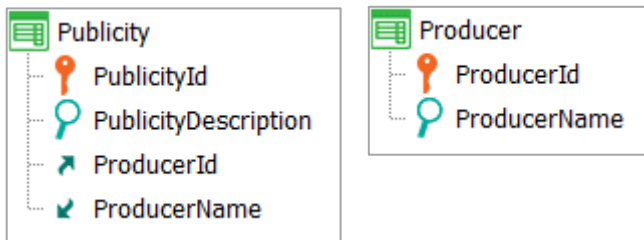
2.1 –



2.2 –



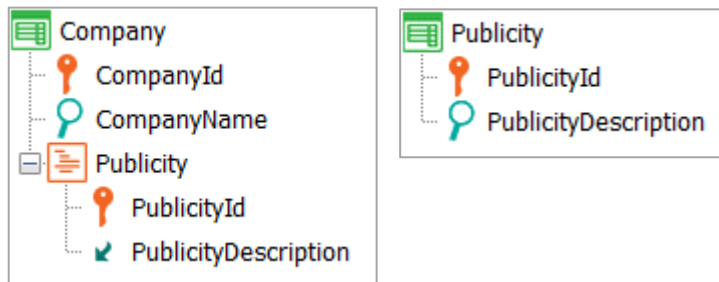
2.3 –



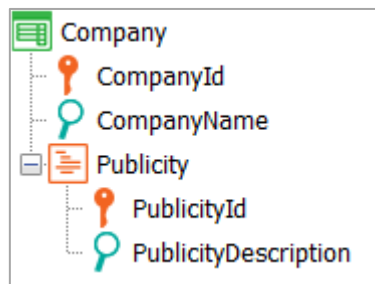
2.4 – None of the above options is correct.

- 3) A client company (Company) purchases many advertisements (Publicity), which belong exclusively to that company. Determine the transaction design you consider correct to model the reality described.

3.1 –



3.2 –

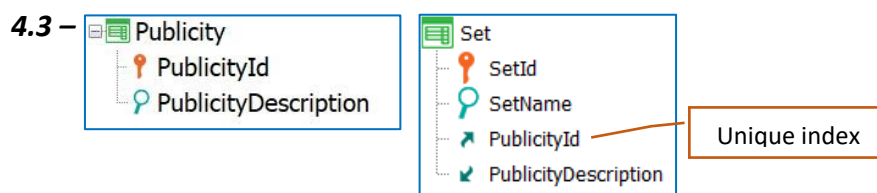
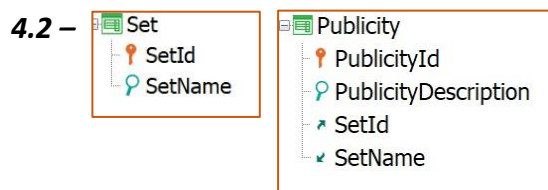
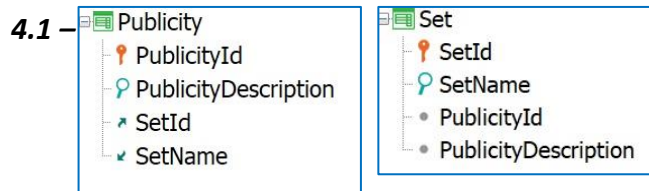


3.3 –



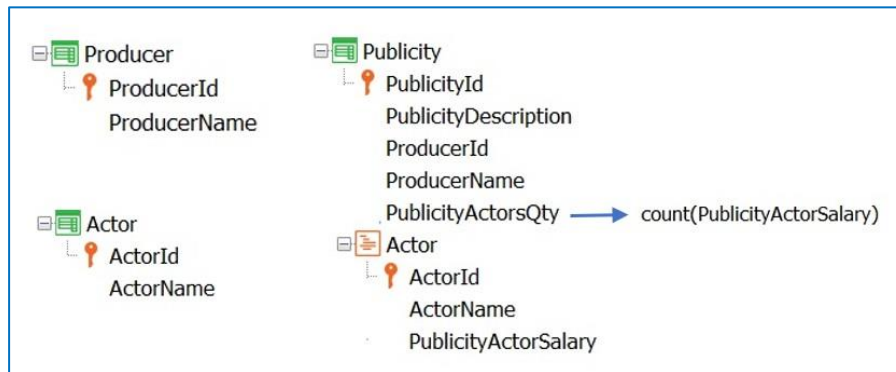
3.4 – None of the above options is correct.

4) Knowing that a film studio (Set) is prepared for recording an advertisement (Publicity), and that in turn an advertisement is recorded in a single studio, determine the option you consider correct:



4.4 – None of the above options is correct.

5) Based on the transaction design displayed, determine the structure of the tables that will be created by GeneXus:



5.1 –

ACTOR ActorId* ActorName	PRODUCER ProducerId* ProducerName	PUBLICITY PublicityId* PublicityDescription ProducerId	PUBLICITYACTOR PublicityId* ActorId* PublicityActorSalary
---------------------------------------	--	--	---

5.2 –

ACTOR ActorId* ActorName	PRODUCER ProducerId* ProducerName	PUBLICITY PublicityId* PublicityDescription ProducerId PublicityActorsQty	PUBLICITYACTOR PublicityId* ActorId* PublicityActorSalary
---------------------------------------	--	--	---

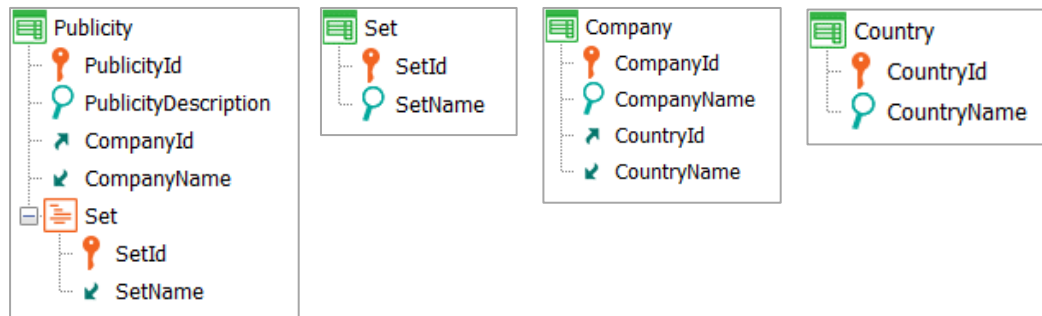
5.3 –

ACTOR ActorId* ActorName	PRODUCER ProducerId* ProducerName	PUBLICITY PublicityId* PublicityDescription ProducerId	PUBLICITYACTOR PublicityId* ActorId*
---------------------------------------	--	--	---

5.4 –

ACTOR ActorId* ActorName	PRODUCER ProducerId* ProducerName	PUBLICITYACTOR PublicityId* PublicityDescription ProducerId ActorId* PublicityActorSalary
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- 6) Look at the transaction design displayed and determine the extended table of the PUBLICITY base table.



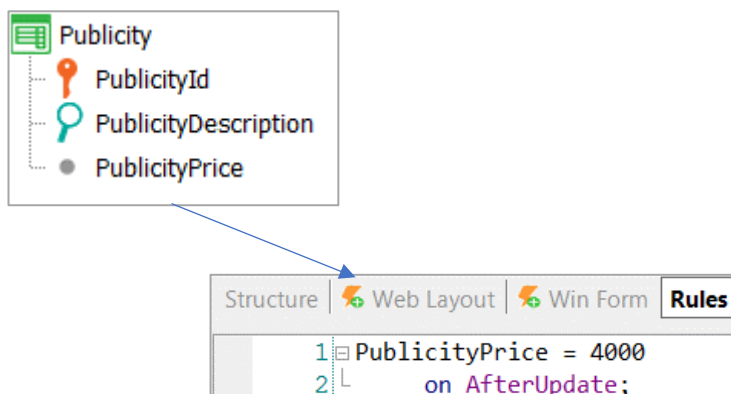
6.1 - PUBLICITY, SET

6.2 - PUBLICITY, COMPANY, SET

6.3 - PUBLICITY, COMPANY, COUNTRY

6.4 - PUBLICITY, COMPANY, COUNTRY, SET

- 7) Consider the transaction design and the declared rule that are displayed.



7.1 – The declared rule corresponds to a functionally correct definition.

7.2 – The declared rule doesn't correspond to a functionally correct definition, since it's not possible to condition a rule to be executed only if the transaction is accessed in Update mode.

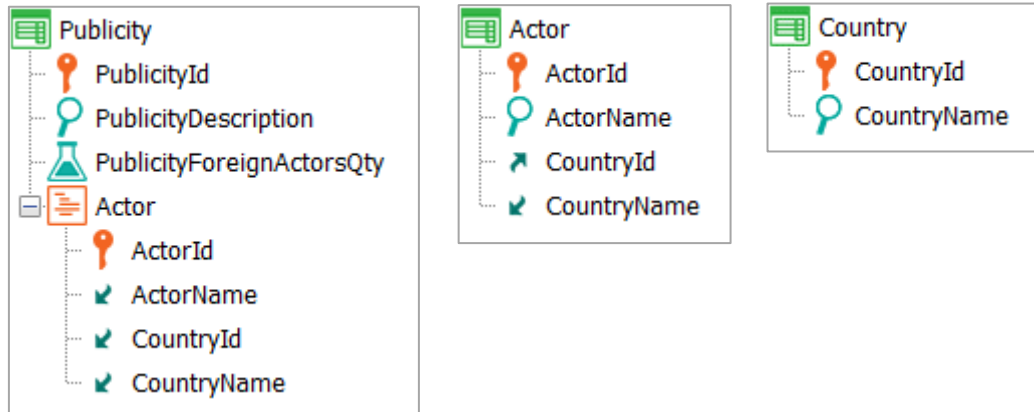
7.3 – The declared rule doesn't correspond to a functionally correct definition, because in the triggering event *on AfterUpdate* the data was already entered in the Publicity table, so it is too late to change the value to an attribute.

7.4 – None of the above options is correct.

8) Consider the transaction design shown below.

We are asked to always know the number of foreign (CountryId <> 1) actors (Actor) who appear in each advertisement.

Determine the definition you consider correct for the formula attribute PublicityForeignActorsQty.



8.1 –

Count(ActorId, CountryId <> 1)

8.2 –

Count(ActorId) if CountryId <> 1

8.3 –

If CountryId <> 1

Count(ActorId)

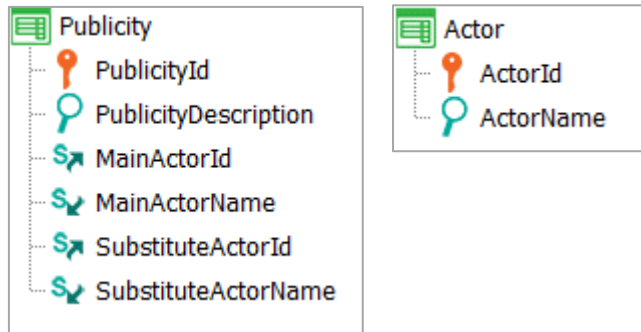
Endif

8.4 – None of the above options is correct.

9) Consider the transaction design displayed.

For each advertisement, it is necessary to register a primary actor and an alternate actor, in case the primary actor is unable to attend the recording.

Determine if the following implementation is correct (true) or not (false).



Subtype	Description	Supertype
<div> <div> MainActor </div> <div> <div> MainActorId </div> <div> MainActorName </div> </div> </div>	Main Actor Id Main Actor Name	ActorId ActorName

Subtype	Description	Supertype
<div> <div> SubstituteActor </div> <div> <div> SubstituteActorId </div> <div> SubstituteActorName </div> </div> </div>	Substitute Actor Id Substitute Actor Name	ActorId ActorName

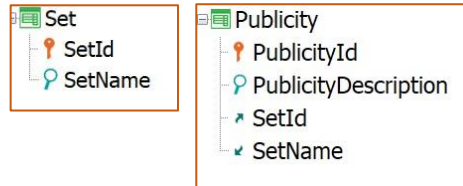
☐ True

☐ False

10) Consider the transaction design displayed.

Using the form of the Set transaction, the record with value SetId = 4 is to be deleted.

Determine what you consider correct:



10.1 – GeneXus deletes the record with value SetId=4 from the SET table without performing any controls.

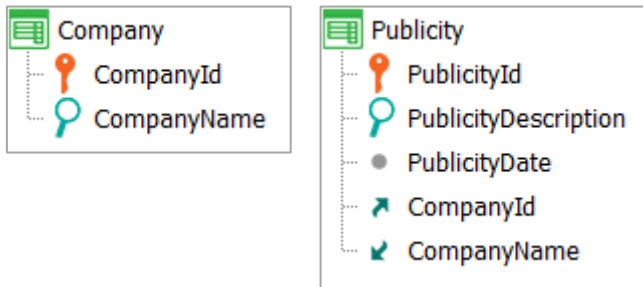
10.2 – GeneXus deletes the record with value SetId=4 from the SET table and also automatically deletes all the records of the PUBLICITY table that have this value as a foreign key SetId.

10.3 – GeneXus deletes the record with value SetId=4 from the SET table and then checks if in the PUBLICITY table there are still records with this value as a foreign key SetId. If there are any, it issues a warning message.

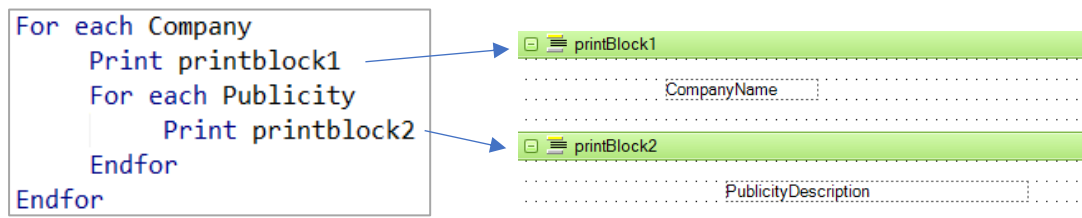
10.4 – GeneXus checks if the PUBLICITY table contains records with value 4 in its SetId foreign key. If there are any, it displays an error message and doesn't perform any action.

11) Consider the transaction design displayed.

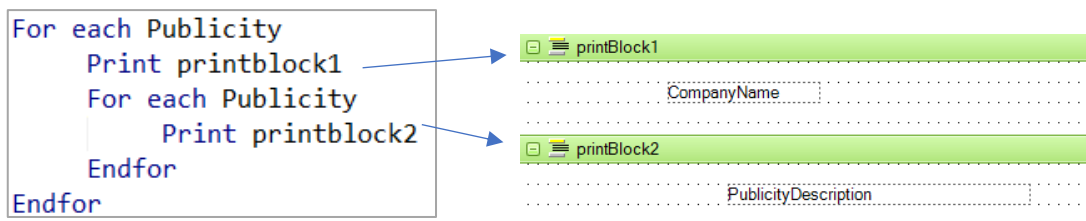
A list is requested that prints all the companies (Company), and for each one of them lists all the advertisements (Publicity) that they have purchased. All the companies should be listed, regardless of whether they have registered advertisements or not.



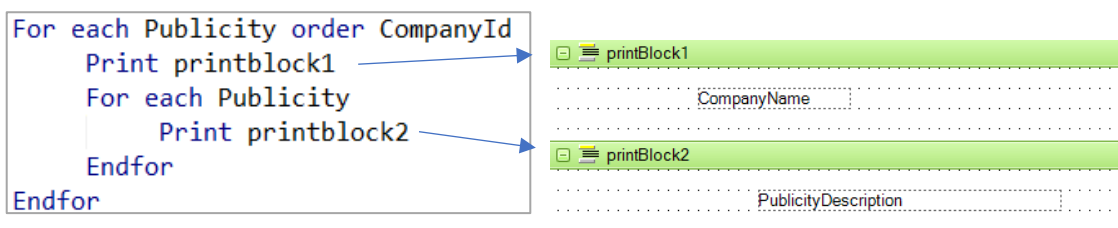
11.1 –



11.2 –



11.3 –



11.4 – None of the above options is correct.

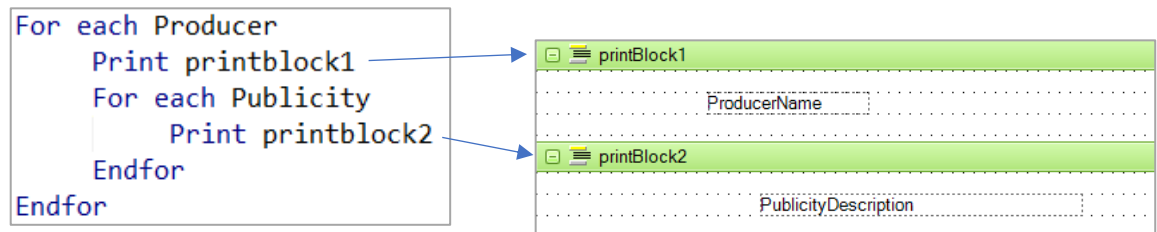
12) A list needs to be defined that shows all the advertisements (Publicity) grouped by their producer in charge (Producer).

Producers who do not have registered advertisements should not be printed.

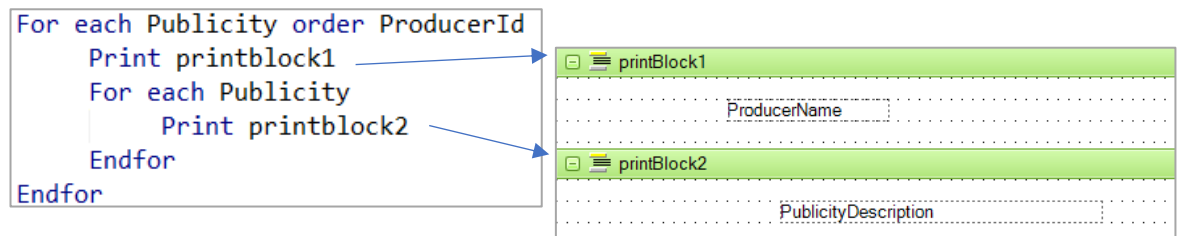
Determine the implementation option you consider correct to meet the requirement described.



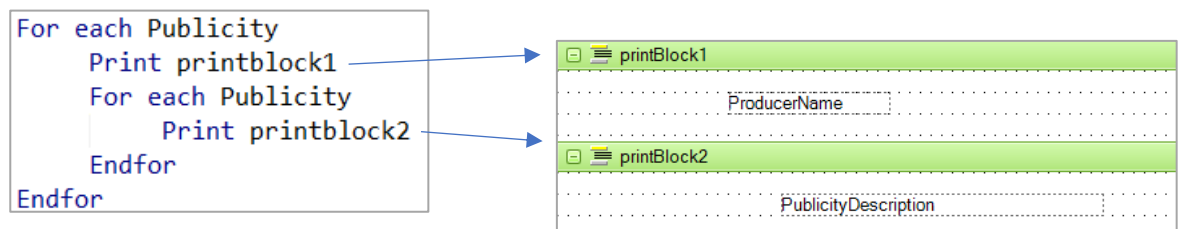
12.1 –



12.2 –

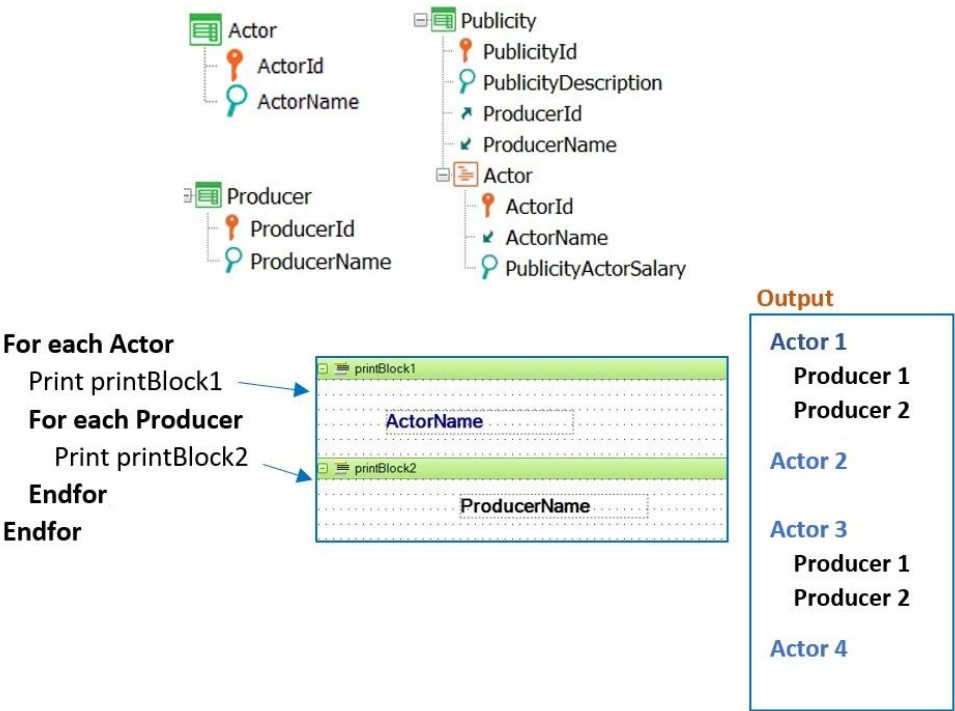


12.3 –



12.4 – None of the above options is correct.

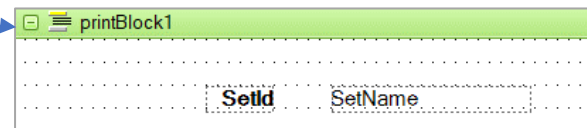
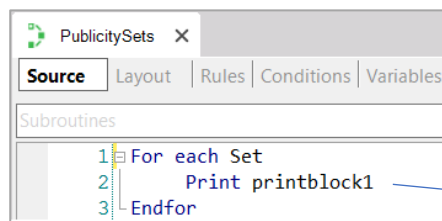
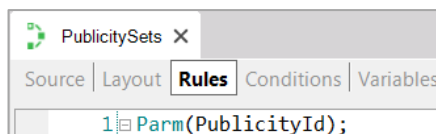
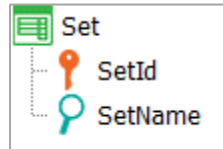
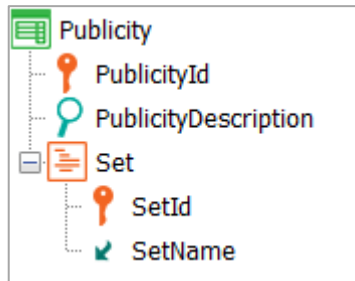
13) Consider the transaction design and implementation displayed. Determine if for the indicated source, the output is as shown.



☐ True ☐ False

14) Consider the transaction design displayed. It is necessary to receive the identifier of an advertisement (PublicityId) and list its film sets.

Determine what you consider correct.



14.1 – The implementation doesn't meet the requirement, because it will show all the existing sets, and not only those that belong to the advertisement received as a parameter. To be correct, the Base Transaction of the For Each must be Publicity.

14.2 – The implementation doesn't meet the requirement, because it will show all the existing sets, and not only those that belong to the advertisement received as a parameter. To be correct, the Base Transaction of the For Each must be Publicity.Set.

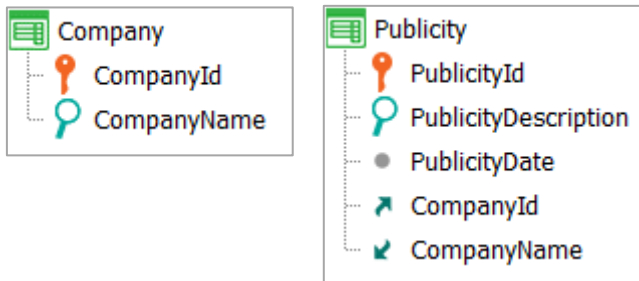
14.3 – For GeneXus to automatically perform the filter by the received parameter, the Parm rule attribute must also be present in the printBlock.

14.4 – None of the above options is correct.

15) Consider the transaction design displayed.

A list has to be created of all the companies (Company) that have more than 5 advertisements (Publicity) registered.

Determine the implementation option you consider correct to meet the requirement described.



15.1 –

```
For each Company
  where count(PublicityDescription) > 5
  Print printBlock1
Endfor
```



15.2 –

```
For each Publicity
  where count(PublicityDescription) > 5
  For each Company
    Print printBlock1
  Endfor
Endfor
```



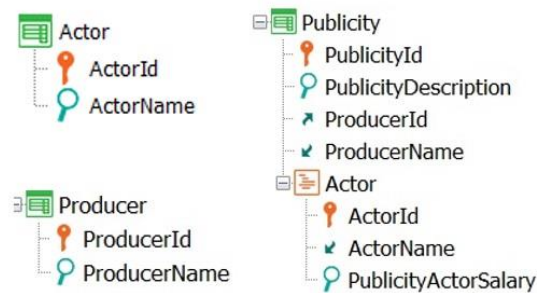
15.3 –

```
For each Publicity
  where count(PublicityDescription) > 5
  Print printBlock1
Endfor
```



15.4 – None of the above options is correct.

16) Based on the transaction design and source displayed, determine the base table of the For Each:

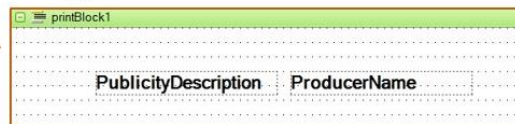


For each Publicity

Where count(PublicityActorSalary) < 5

Print printBlock1

Endfor



16.1 – The base table of the For Each is PUBLICITYACTOR.

16.2 – The base table of the For Each is PRODUCER.

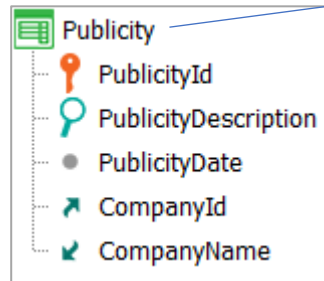
16.3 – The base table of the For Each is PUBLICITY.

16.4 – The source is poorly defined since there is no extended table containing all the attributes declared in the For Each.

17) Consider the transaction design displayed.

All advertisements registered for a certain company (Company) received by parameter are requested to be deleted.

Determine whether the proposed implementation option is correct (true) or not (false) to solve the described requirement.



Business Component	True
--------------------	------

Source * | Layout | **Rules *** | Conditions

1. `Parm(&CompanyId);`

```

For each Publicity
  where CompanyId = &CompanyId
  &Publicity.Load(PublicityId)
  &Publicity.Delete()
Endfor
Commit

```

Name	Type
& Variables	
& Standard Variables	
Publicity	Publicity
CompanyId	Attribute:CompanyId

☐ True

☐ False

18) Consider the transaction design and source shown below.

Indicate whether the following statement is true or false: “The code displayed (which has been defined in an event or object source) will insert the new advertisement.”

The image shows a screenshot of the GeneXus development environment. On the left, a 'Publicidad' entity is defined with attributes: 'PublicidadId' (marked as a primary key), 'PublicidadDescription', and 'PublicidadPrice'. To the right, a table shows properties for the 'Publicidad' entity: 'Business Component' is set to 'True', and 'Autonumber' is also set to 'True'. Below this, the 'Rules' tab is selected, showing two lines of code: 1. Error("The price can not be lower than 350") and 2. if insert and PublicidadPrice < 350;. At the bottom, a code block shows the following logic: &Publicidad.PublicidadDescription = "Star publicity", &Publicidad.PublicidadPrice = 200, &Publicidad.Insert(), and Commit.

Publicidad	Business Component	True
PublicidadId	Autonumber	True

```
1 Error("The price can not be lower than 350")
2 if insert and PublicidadPrice < 350;
```

```
&Publicidad.PublicidadDescription = "Star publicity"
&Publicidad.PublicidadPrice = 200
&Publicidad.Insert()
Commit
```

☐ True

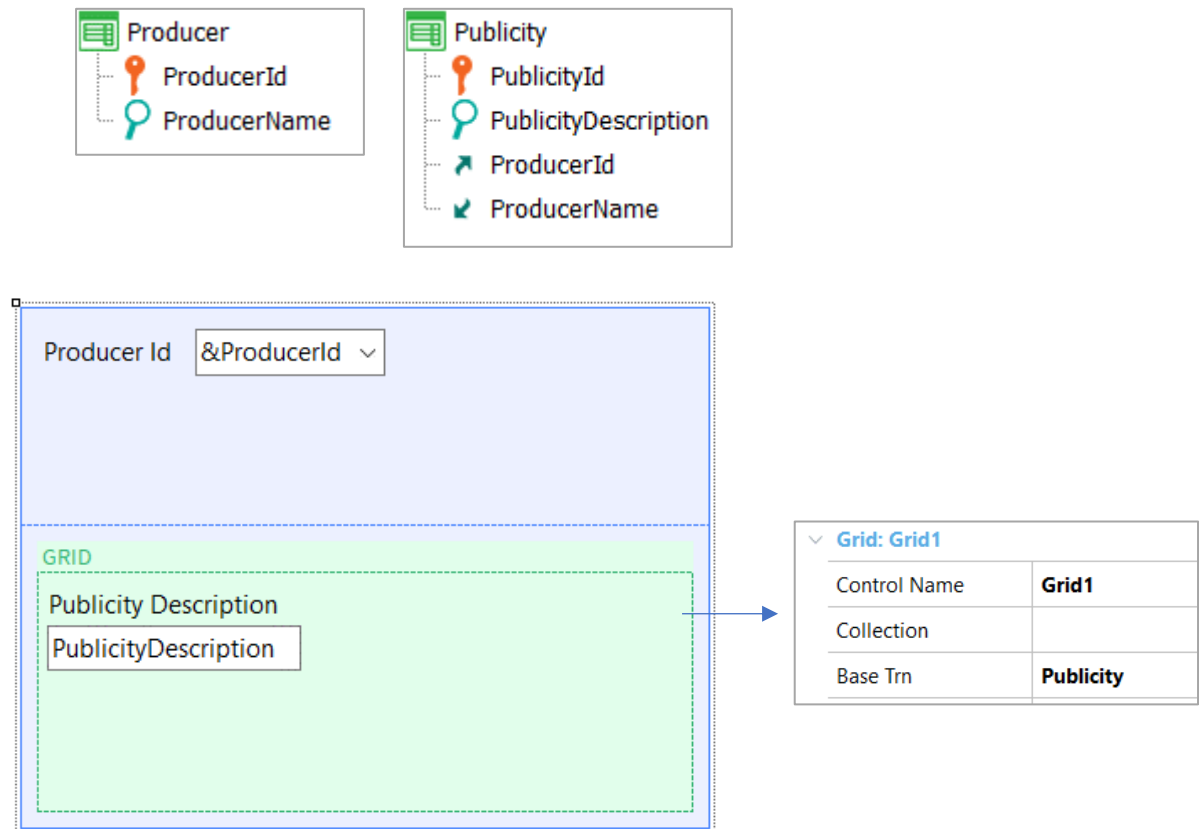
☐ False

19) Consider the transaction design and the Web Panel displayed.

It is requested that the Web Panel displays the advertisements (Publicity) created by a producer (Producer) that the user has previously chosen from the Dynamic combo box offered.

Suppose that the dynamic combo box has been correctly created.

Select the option that you consider correct:



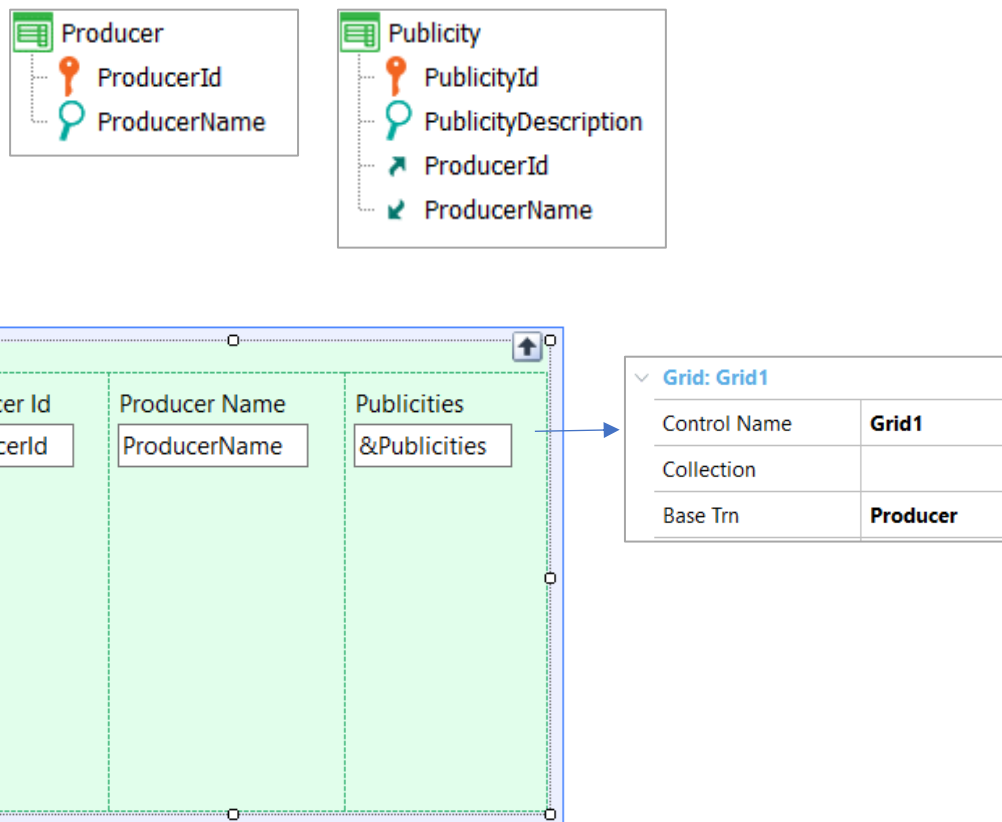
19.1 – It is not necessary to define anything else in the Web Panel displayed. GeneXus will automatically apply a filter by equality between the value of the variable and the attribute of the same name. Therefore, the grid will load the advertisements of the producer selected by the user.

19.2 – The following rule must be added: `ProducerId=&ProducerId`;

19.3 – The following condition must be added at the grid level:
`ProducerId=&ProducerId`;

19.4 – None of the above options is correct.

20) It is necessary to define a Web Panel that shows all the producers (Producer), each one with their corresponding number of registered advertisements (Publicity). Select the implementation option you consider correct to meet the requirement described.



20.1 –

```
Event Load
    &Publicities = Count(PublicityDescription)
Endevent
```

20.2 –

```
Event Load
    For each Producer
        &Publicities = Count(PublicityDescription)
    Endfor
Endevent
```

20.3 –

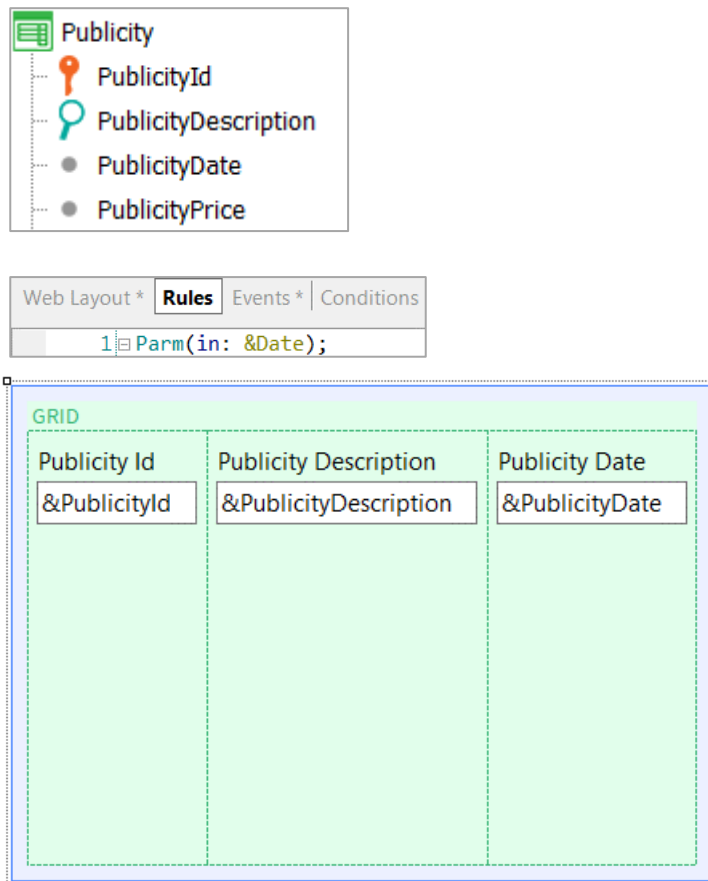
```
Event Load
    For each Producer
        &Publicities = Count(PublicityDescription)
        Load
    Endfor
Endevent
```

20.4 – None of the above options is correct.

21) Consider the transaction design displayed.

It is necessary to define a Web Panel that shows all the advertisements (Publicity) that have been registered as of a certain date received by parameter.

Select the implementation option you consider correct to meet the requirement described.



21.1 –

```
Event Load
  For each Publicity
    where PublicityDate >= &Date
    &PublicityId = PublicityId
    &PublicityDescription = PublicityDescription
    &PublicityDate = PublicityDate
  Endfor
Endevent
```

21.2 –

```
Event Load
  if PublicityDate >= &Date
    &PublicId = PublicityId
    &PublicDescription = PublicityDescription
    &PublicDate = PublicityDate
    Load
  Endif
Endevent
```

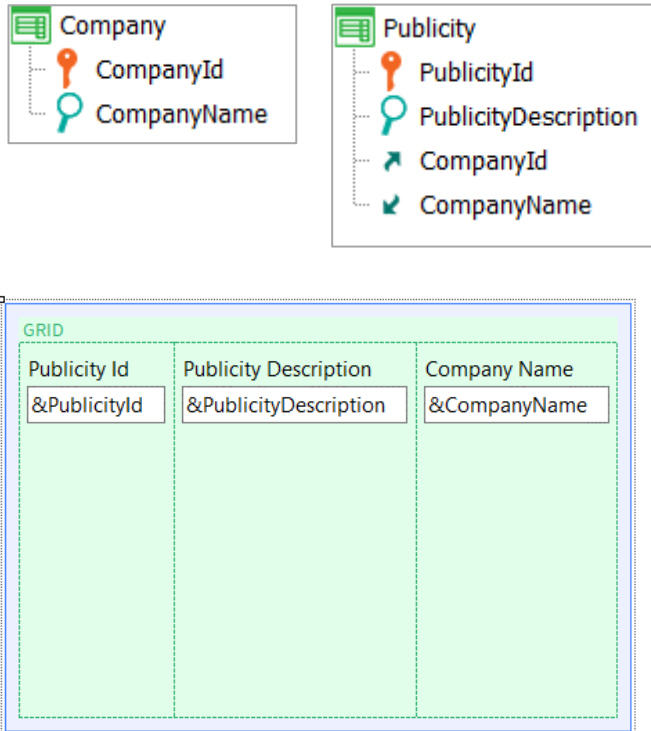
21.3 –

```
Event Load
  For each Publicity
    where PublicityDate >= &Date
      &PublicId = PublicityId
      &PublicDescription = PublicityDescription
      &PublicDate = PublicityDate
      Load
    Endfor
  Endevent
```

21.4 – None of the above options is correct.

22) Consider the transaction design and the Web Panel displayed.

Knowing that there are 100 companies (Company) and 1000 advertisements (Publicity) registered, determine the number of times that the Load event of the Web Panel will be executed.



22.1 – 1000 times

22.2 – 100 times

22.3 – Once

22.4 – Never

ANSWERS

- 1) 2
- 2) 3
- 3) 2
- 4) 3
- 5) 1
- 6) 3
- 7) 3
- 8) 1
- 9) True
- 10) 4
- 11) 1
- 12) 2
- 13) False
- 14) 2
- 15) 1
- 16) 3
- 17) True
- 18) False
- 19) 3
- 20) 1
- 21) 3
- 22) 3