

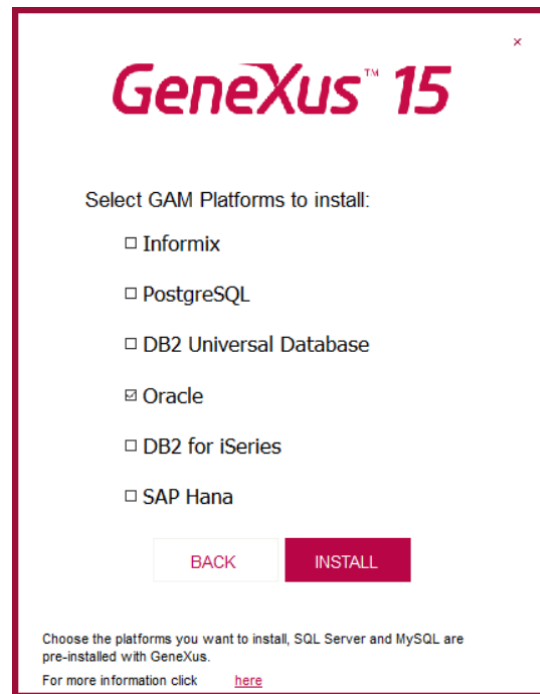
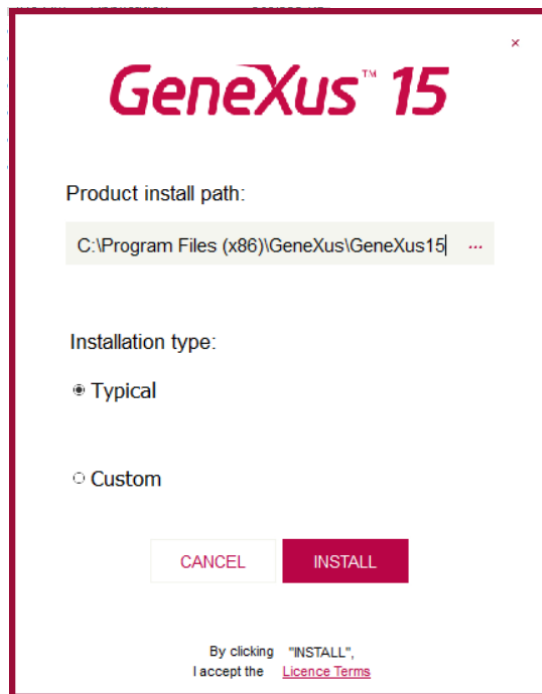
First Steps

Update to GeneXus
from Evolution 3 to version 15

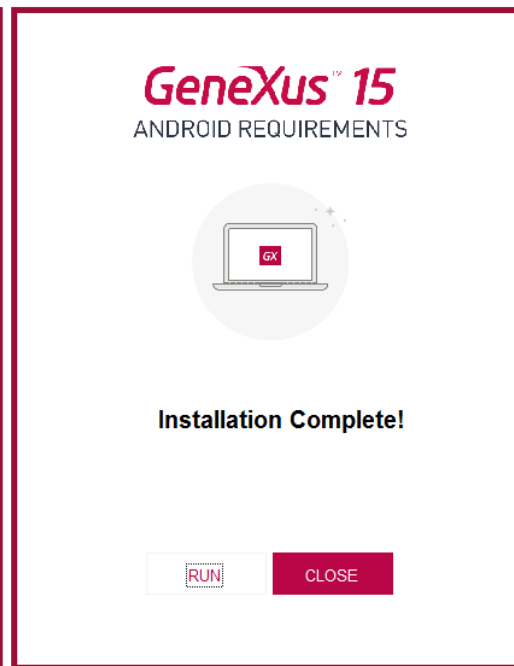
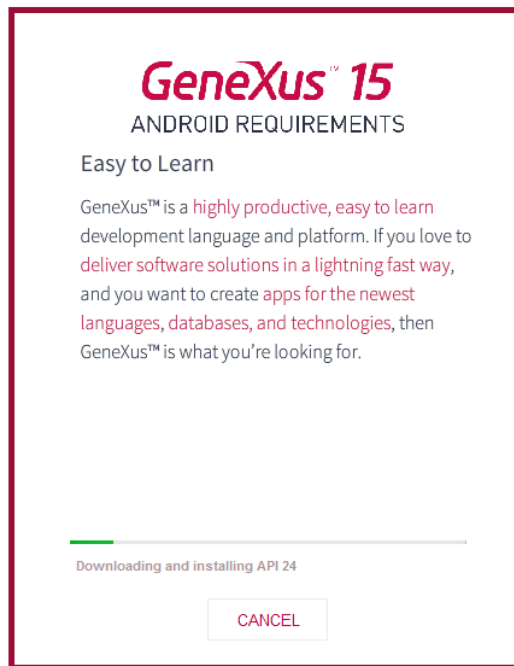
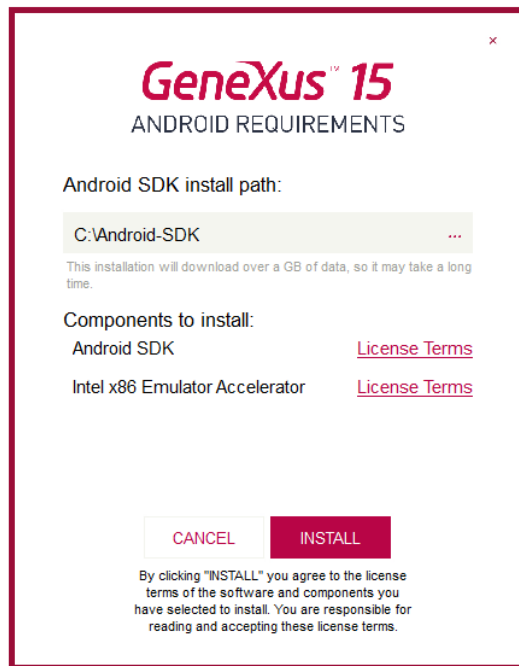
GeneXus[™] 15

Setup improvements

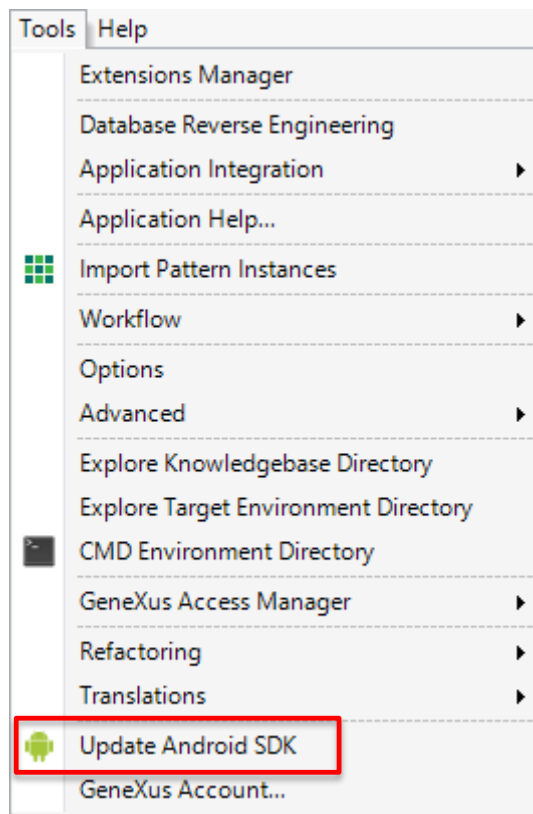
GeneXus Setup



Android SDK Installer

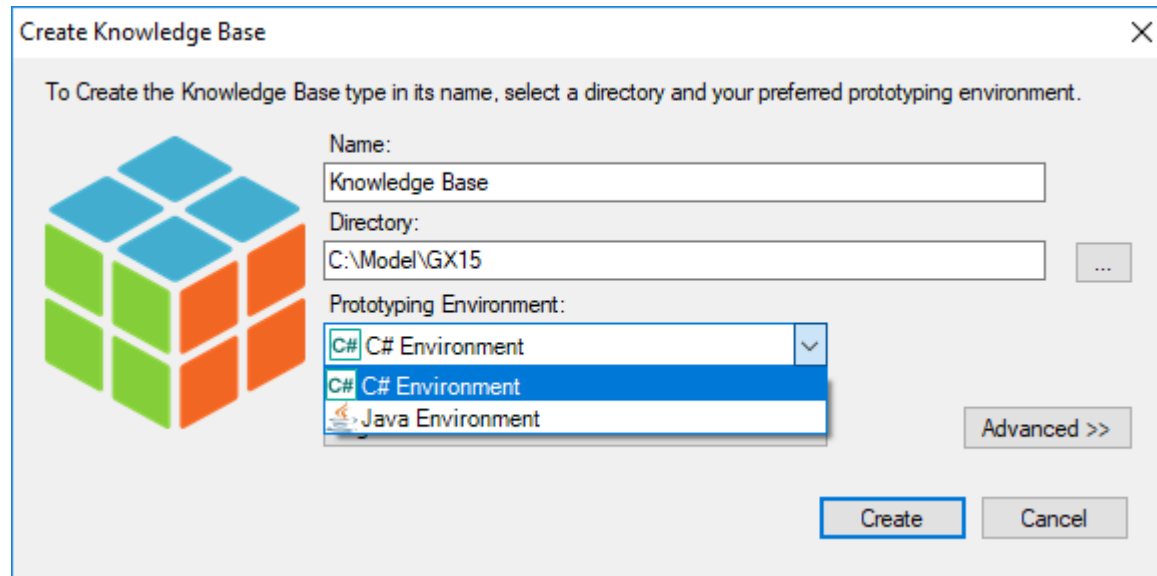


Android SDK Installer



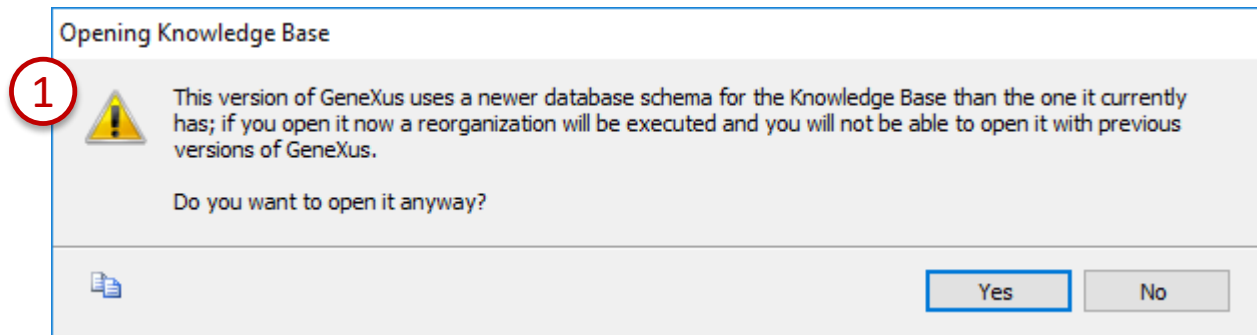
Not supported anymore

- Ruby generator
- Win environments
- Blackberry, Windows 8, Windows Phone



Knowledge Base Conversion

Newer Database Schema



2

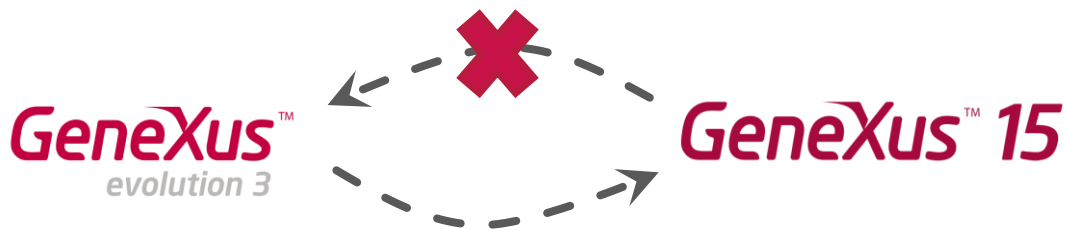


Rebuild All

If you already built for iOS with a previous GeneXus version, delete the <Environment Directory>\mobile\iOS folder before doing a Rebuild with GeneXus 15.

3

Navigation comparer



IDE Improvements

New look

The screenshot displays the GeneXus 15 IDE interface for the 'OnlineShopGX15' project. The main design canvas shows a web form layout with the following components:

- <ErrorViewer: ErrorViewer>** container:

 - Work With Products** label and **<Actions>** button.
 - &ProductName** text input field.
 - GRID** table with columns: Id, Name, Price, Category Id, Category, Date, Photo.

- Table Headers:** ProductId, ProductName, ProductPrice, CategoryId, CategoryName, ProductPublicationDate.
- Photo Column:** Three image placeholders showing a landscape with a sun and mountains.

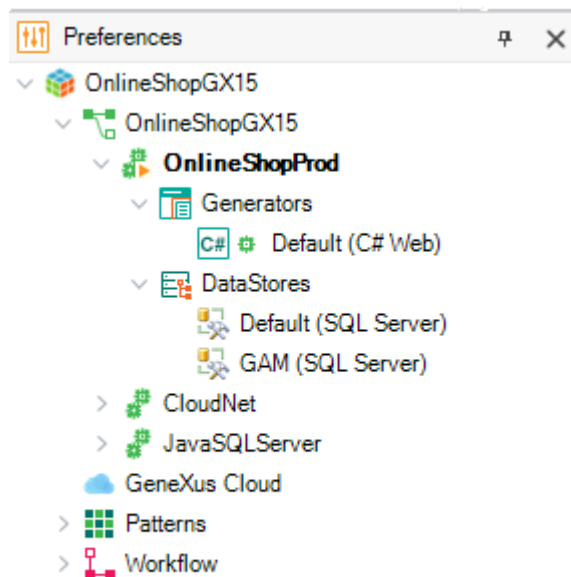
The **Properties** panel on the right shows the properties for the **Web Component: WWProduct**:

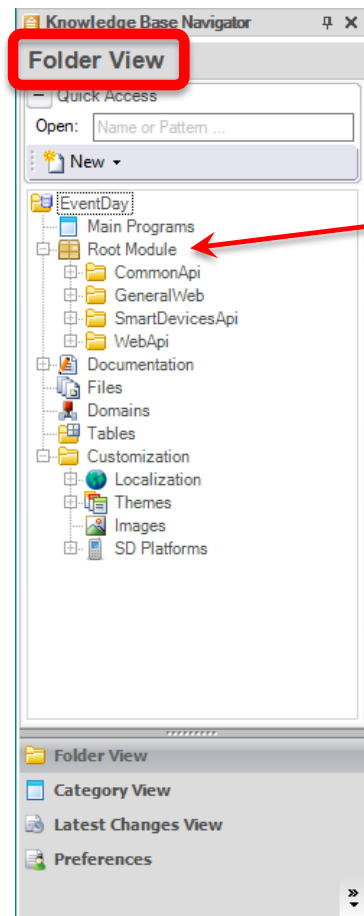
Property	Value
Name	WWProduct
Description	Work With Product
Theme	Flat
Type	Component
URL access	Yes
Show Master Page w/	False
Main program	False
On session timeout	Ignore
Focus control	Use Environment property value
Cache expiration laps	
Automatic refresh	Yes
Auto compress http t	Use Environment property value
Qualified Name	Product.WWProduct
Object Visibility	Public
Integrated Security	None
Warning messages	
Disabled warnings	spc0096 spc0107 spc0142

The **Output** window at the bottom shows the following log messages:

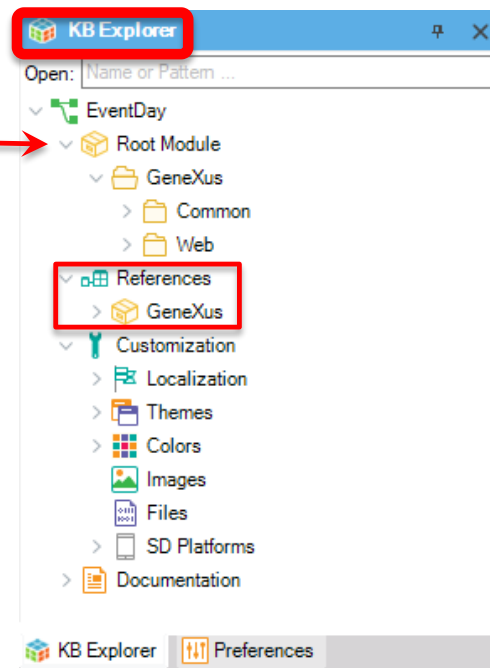
```
===== Pattern generation (WorkWithProduct) started =====
Saving Web Component 'Product.WWProduct'... skipped (no significant changes).
Saving Web Panel 'Product.ViewProduct'... skipped (no significant changes).
Saving Web Component 'Product.ProductGeneral'... skipped (no significant changes).
Saving Transaction 'Product.Product'... skipped (no significant changes).
Saving Procedure 'ListPrograms'... skipped (no significant changes).
Pattern generation (WorkWithProduct) Success
```

New Icons





KB Explorer instead of Folder View

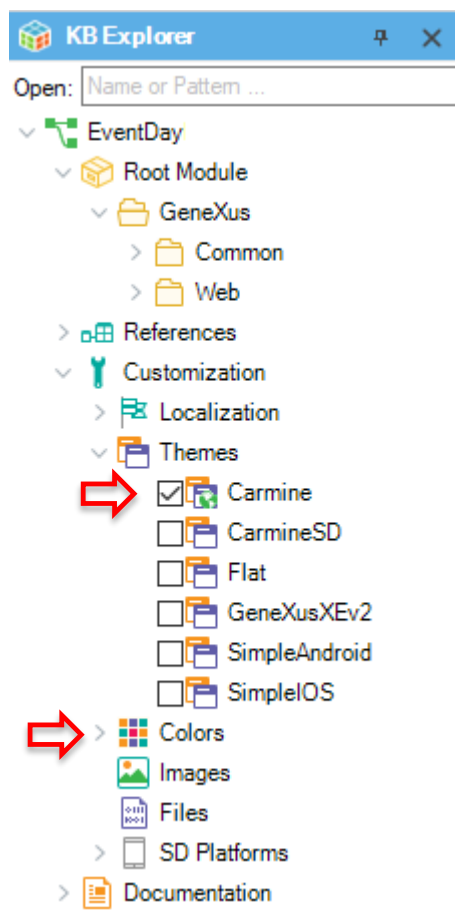


Domains

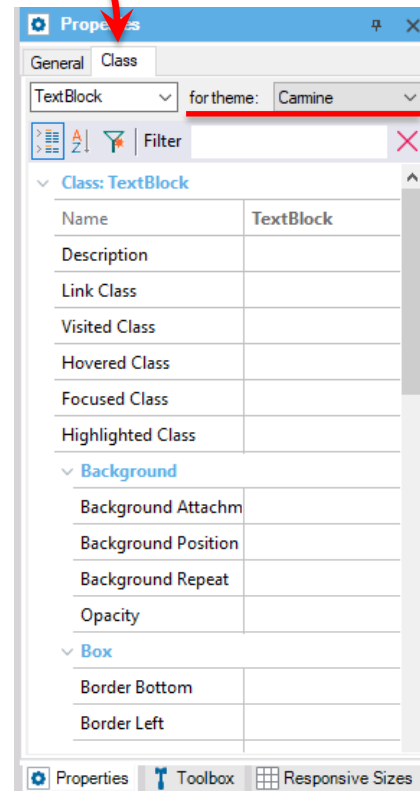
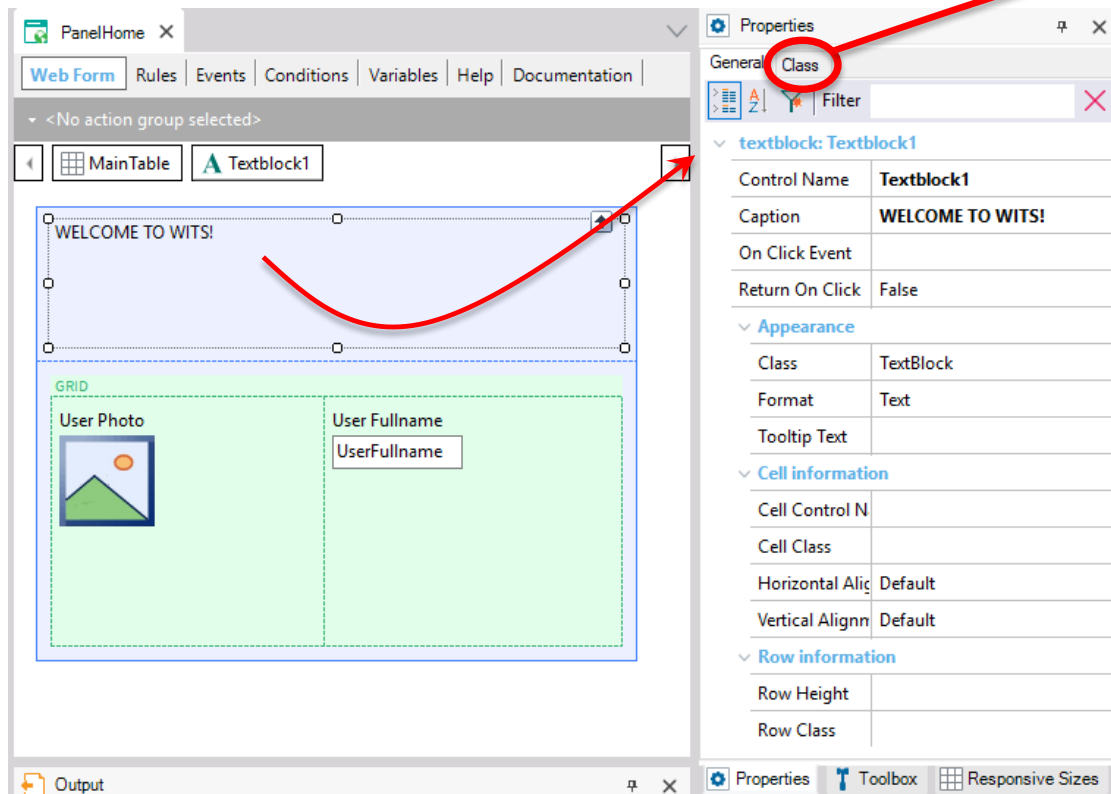
The screenshot displays the GeneXus KB Explorer application. On the left, a tree view shows the project structure with folders like EventDayDIY, Root Module, GeneXus, Common, Web, References, Client, Common, SD, Social, Web, Customization, and Documentation. The main window is titled 'Start Page' and 'Domains'. It features a search bar with 'Filter:' and 'Module:' labels. Below this is a table with four columns: Name, Type, Module, and Description. The 'Domains' table is highlighted with a red border. The table lists various domains and their associated modules. At the bottom, there is an 'Output' section and a status bar with 'Show: General', a search icon, 'Find:', and an 'Autoscroll' button.

Name	Type	Module	Description
Domains			
FilterRelationType	Numeric(4,0)	GeneXus.Common.Notifications	Filter Relation Type
FilterOperation	Numeric(4,0)	GeneXus.Common.Notifications	Filter Operation
TargetType	Numeric(4,0)	GeneXus.Common.Notifications	Target Type
RuntimeEnvironment	Numeric(4,0)	GeneXus.Common	Runtime Environment
MapType	Numeric(4,0)	GeneXus.Common	Map Type
StorePurchaseState	Numeric(1,0)	GeneXus.SD.Store	Purchase State
StorePurchasePlatform	Numeric(4,0)	GeneXus.SD.Store	Store Purchase Platform
StoreProductType	Numeric(4,0)	GeneXus.SD.Store	Store Product Type
StorePurchaseStatus	Numeric(4,0)	GeneXus.SD.Store	Store Purchase Status
MediaMetadataKey	VarChar(50)	GeneXus.SD.Media	Media Metadata Key
MediaStreamType	Numeric(4,0)	GeneXus.SD.Media	Media Stream Type
Url	VarChar(1000)	GeneXus	Url
IMEMode	Character(40)	GeneXus	IMEMode property values
Time	DateTime	GeneXus	Time
Encoding	Character(256)	GeneXus	IANA Encoding
Timezones	Character(60)	GeneXus	Timezones
Effect	Character(20)	GeneXus	Effect
CallType	Character(20)	GeneXus	Call Type
CryptoEncryptAlgorithm	Character(40)	GeneXus	Crypto Algorithm Encrypt
CryptoHashAlgorithm	Character(40)	GeneXus	Crypto Algorithm Hash
CryptoSignAlgorithm	Character(40)	GeneXus	Crypto Algorithm Sign
TrnMode	Character(3)	GeneXus	TrnMode
Address	VarChar(1K)	GeneXus	Address
Component	Url, GeneXus	GeneXus	Component
Email	VarChar(100)	GeneXus	Email

Customization



Classes can be edited in Properties Window



Create Selected Object

```
endif
endif
If &continue
    &sessions = ModifySessionsRoom( &RoomFrom, &RoomTo
    if &sessions.Count > 0
        if &sessions.Update()
            Commit
```

Create Selected Object	Shift+F12
Function...	Ctrl+Shift+F
Event...	Ctrl+Shift+E
Command...	Ctrl+Shift+K

```
If &continue
    &sessions = ModifySessionsRoom( &RoomFrom, &RoomTo )
    if &sessions.Count > 0
        if &sessions.Update()
            Commit
            msg( 'The update has been successful.' )
            Component1.Refresh()
        else //some update failed
            for &session in &sessions
                if not &session.IsNew
                    msg( &session.ErrorMessage )
                endif
            endfor
            Rollback
```

Create Object

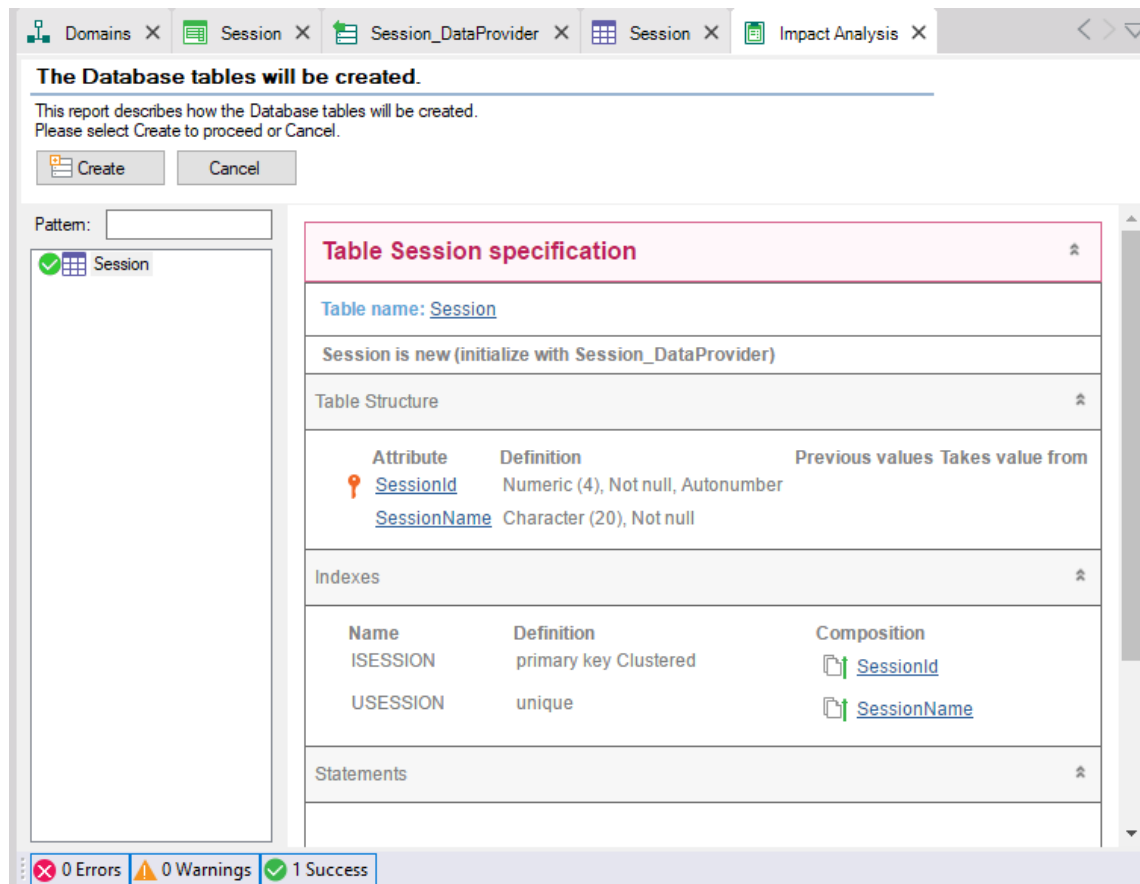
Type: Output: Session
Parent:
Name: ModifySessionsRoom
Param: (in: Numeric, in: Numeric)

Ok

Cancel

More IDE Improvements

- Reports



The Database tables will be created.

This report describes how the Database tables will be created.
Please select Create to proceed or Cancel.

Pattern:

☒ ☐ Session

Table Session specification

Table name: [Session](#)

Session is new (initialize with Session_DataProvider)

Table Structure

Attribute	Definition	Previous values	Takes value from
SessionId	Numeric (4), Not null, Autonumber		
SessionName	Character (20), Not null		

Indexes

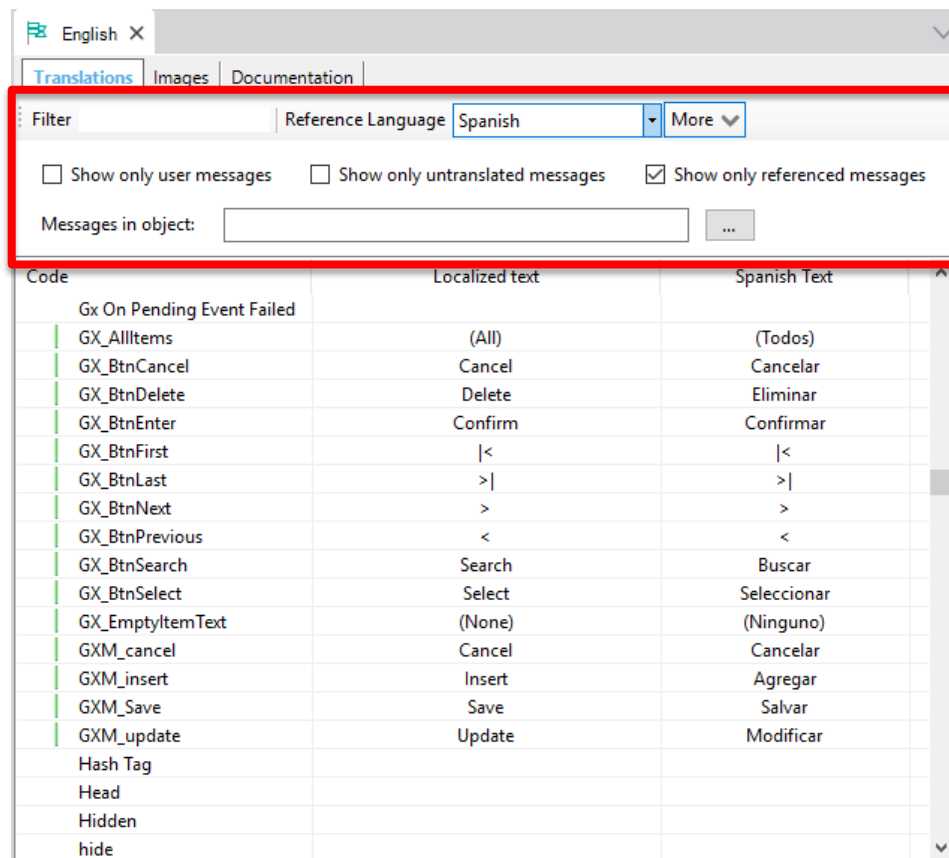
Name	Definition	Composition
ISESSION	primary key Clustered	SessionId
USESSION	unique	SessionName

Statements

0 Errors 0 Warnings 1 Success

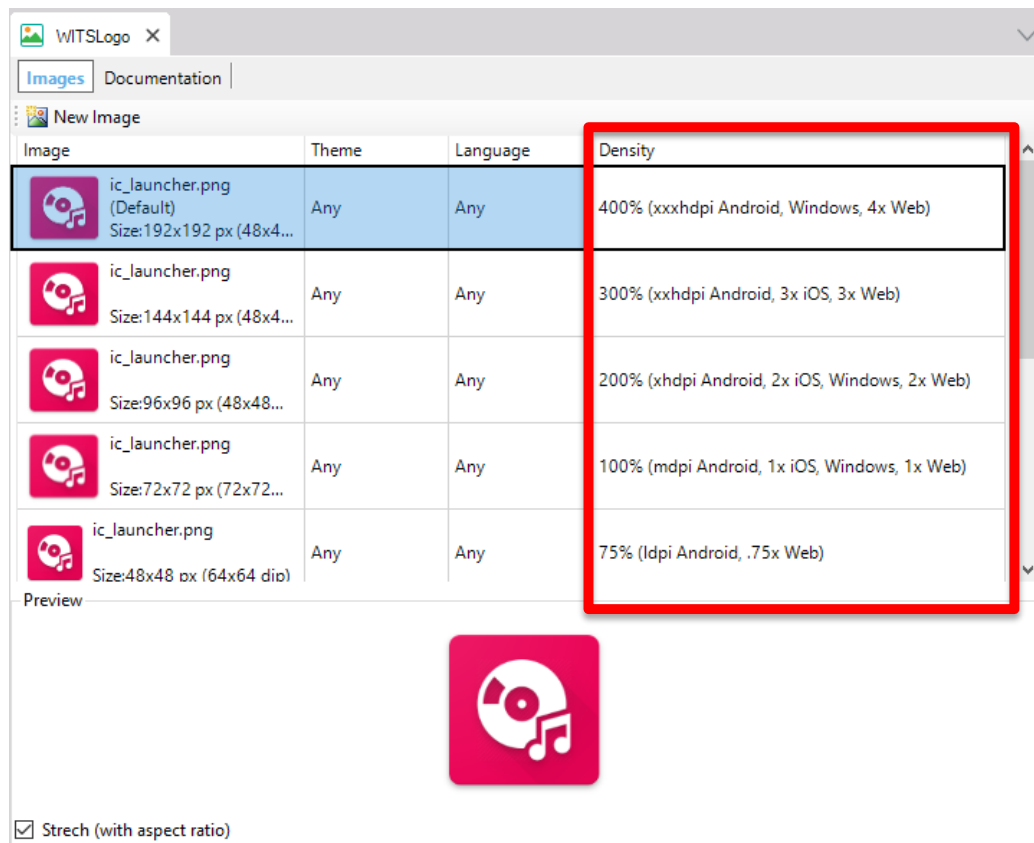
More IDE Improvements

- Languages Editor improved



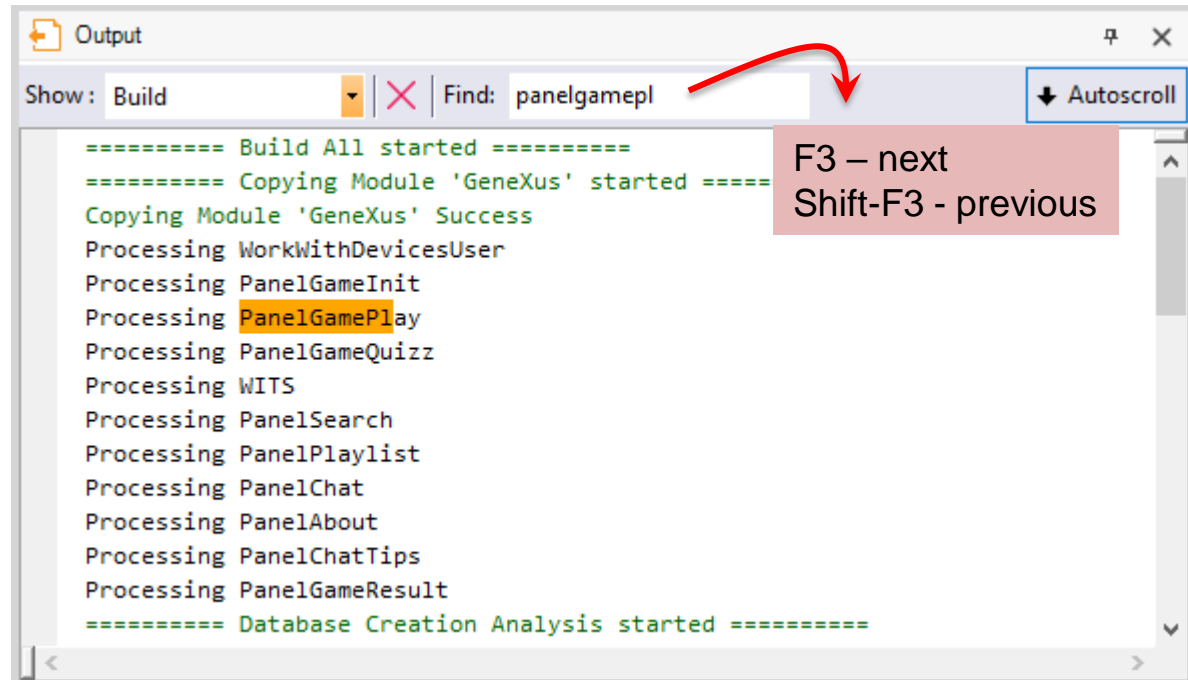
More IDE Improvements

- Import images with multiple densities



More IDE Improvements

- Output Window Improvements:
 - Find
 - Background Specification when an object is saved



Language Improvements

For Each

For each *BaseTransaction*SKIP *expression* COUNT *expression*

Paging

order *att*₁, *att*₂, ... , *att*_{*n*} [when *condition*]order *att*₁, *att*₂, ... , *att*_{*n*} [when *condition*]unique *att*₁, *att*₂, ... , *att*_{*n*}using *DataSelector*(*parm*₁, *parm*₂, ... , *parm*_{*n*})where *condition* [when *condition*]where *condition* [when *condition*]where *att* IN *DataSelector*(*parm*₁, *parm*₂, ... , *parm*_{*n*})blocking *N**Main_code*

When duplicate

When_duplicate_code

When none

When_none_code

Endfor

```

Event Grid1.Load()
  for each Session
    skip &pageSize*(&pageNumber-1) count &pageSize
    order SessionName
      &SessionName = SessionName
    Load
  endfor
Endevent

```



Videos

training.genexus.com

Documentation

wiki.genexus.com

Certifications

training.genexus.com/certifications