DNA Test Optimizer

GenTestObjects.dnax
Extension ID: 1ef7dc4b-d1ab-4dda-a329-bd70c9e936ab

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Overview:
The DNA Test Optimizer (Generate Test Objects) application allows the Financial Institution to retrieve test data quickly and dynamically for pre-defined conditions based on Account, Person, and Organization criteria, and utilize this test data when validating new releases and system updates and incumbent functionality. This allows the User to easily find test data to use instead of having to track down test data from outside query tools or reports, and to not have to use the same testing data sets every time.

Key Benefits:
The DNA Test Optimizer application allows the Financial Institution to streamline the retrieval and overall process of their test data needed for release and system regression testing.

Benefits include:

- Queries are User-defined, and are performed within DNA instead of using an outside query tool.
- Set up of pre-defined SQL Statements to retrieve test numbers for Persons, Organizations, Deposit Accounts or Loan Accounts based on specific conditions that can be run at any time.
- Storage of SQL queries in clear text format.
- Dynamic query functionality in that a query will retrieve current real-time data for that database e.g. searching for a loan account in a certain product that is past due by more than x days.
- Ability to create an evolving library of standard SQL Statements to retrieve test numbers based on specific conditions.
- Portability that allows an export file of the SQL Statements to be imported into another database, essentially allowing the library to be copied if desired.
- On-screen choice of the maximum number of records to retrieve.
- Catalog and filtering ability to organize SQL Statements into groups for easier on-screen access.

Processing:
The DNA Test Optimizer application is designed to allow Financial Institutions to retrieve test data quickly based on pre-defined SQL Statements. The DNA Test Optimizer application includes the Generate Test Objects and the Generate Test Objects – SQL Test screens. The Financial Institution would add the SQL Statements on the Generate Test Objects – SQL Test screen and then the User can run the SQL Statements on the Generate Test Objects screen to get the test data.

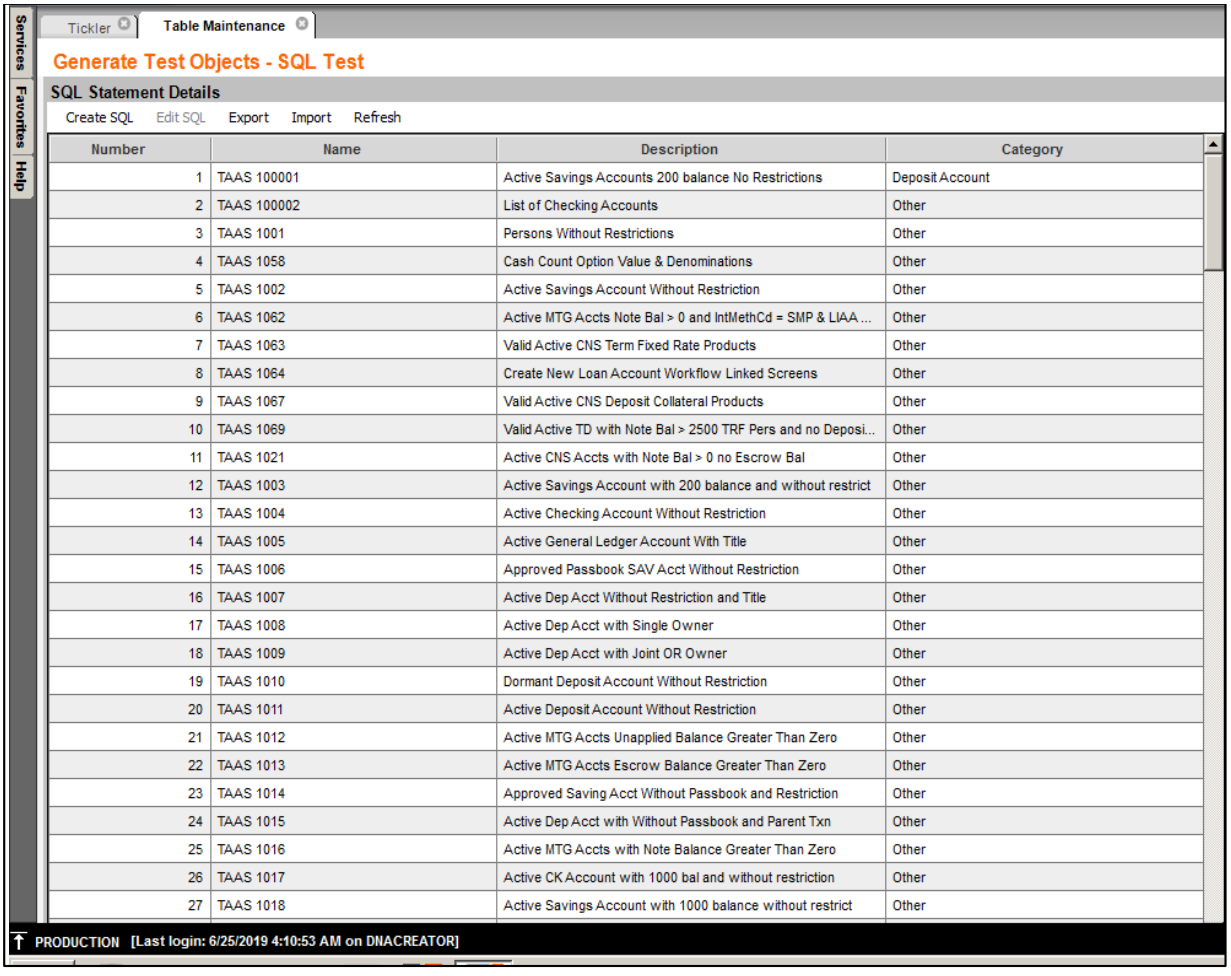
The existing ‘SQL – SQL Maintenance’ authorization item must be assigned and have appropriate permissions established in order to access and utilize the Generate Test Objects – SQL Test and Generate Test Objects screens.

This application is designed to run SQL Statements that return Person numbers, Organization numbers, Deposit Account numbers or Loan Account numbers. The SQL Statements used for this application will be maintained on the Generate Test Objects – SQL Test screen which is accessed via Services > System > Printing Operations > Generate Test Objects – SQL Test > Create/Edit SQL Statement.

Note: If the SQL Statement is written to return a number in the first column and a name or description in the second column, it can be utilized with this application.

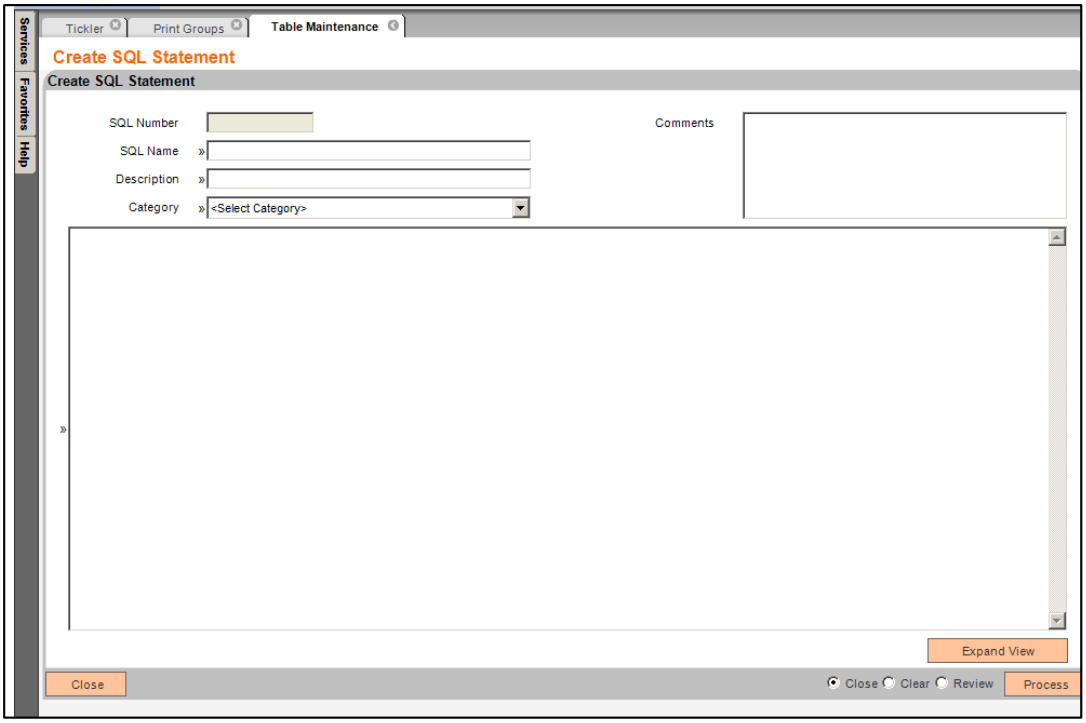
To create a new SQL Statement to be used to retrieve the test data on the Generate Test Objects screen, the following would occur:

1. Navigate to Services > System > Printing Operations > Generate Test Objects – SQL Test to access the Generate Test Objects – SQL Test screen.

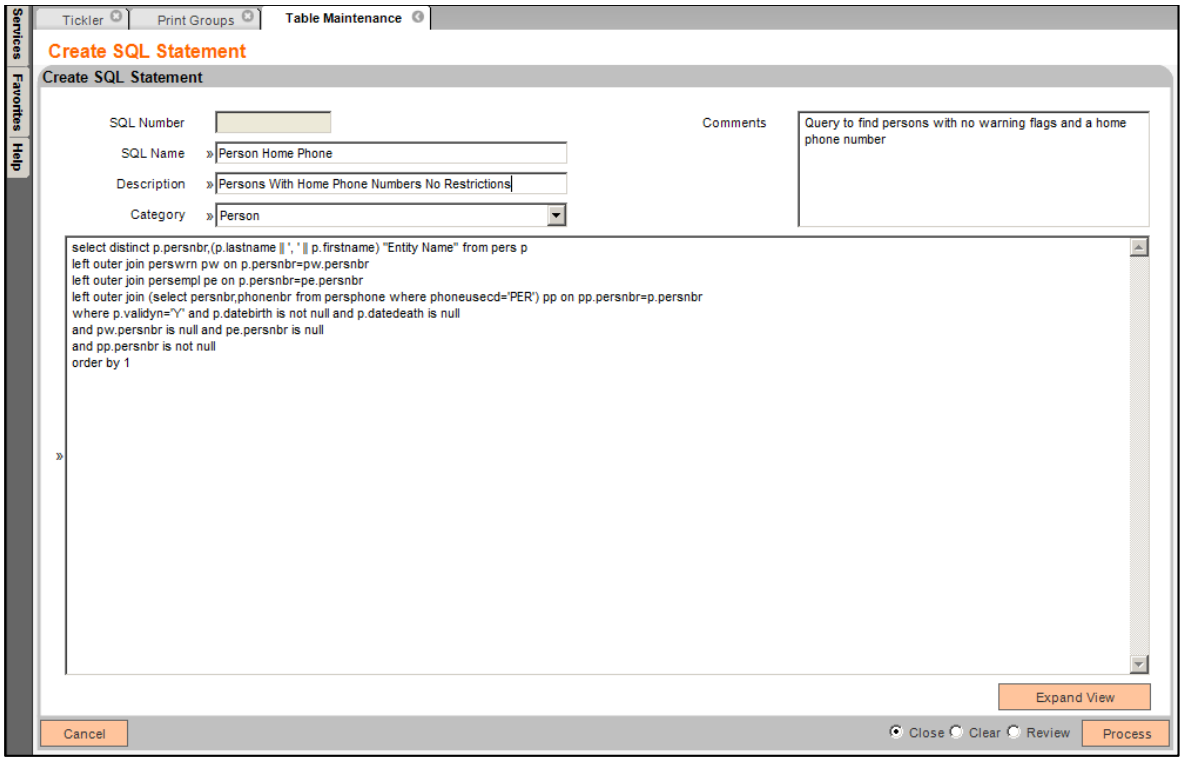


Number	Name	Description	Category
1	TAAS 100001	Active Savings Accounts 200 balance No Restrictions	Deposit Account
2	TAAS 100002	List of Checking Accounts	Other
3	TAAS 1001	Persons Without Restrictions	Other
4	TAAS 1058	Cash Count Option Value & Denominations	Other
5	TAAS 1002	Active Savings Account Without Restriction	Other
6	TAAS 1062	Active MTG Accts Note Bal > 0 and IntMethCd = SMP & LIAA ...	Other
7	TAAS 1063	Valid Active CNS Term Fixed Rate Products	Other
8	TAAS 1064	Create New Loan Account Workflow Linked Screens	Other
9	TAAS 1067	Valid Active CNS Deposit Collateral Products	Other
10	TAAS 1069	Valid Active TD with Note Bal > 2500 TRF Pers and no Deposi...	Other
11	TAAS 1021	Active CNS Accts with Note Bal > 0 no Escrow Bal	Other
12	TAAS 1003	Active Savings Account with 200 balance and without restrict	Other
13	TAAS 1004	Active Checking Account Without Restriction	Other
14	TAAS 1005	Active General Ledger Account With Title	Other
15	TAAS 1006	Approved Passbook SAV Acct Without Restriction	Other
16	TAAS 1007	Active Dep Acct Without Restriction and Title	Other
17	TAAS 1008	Active Dep Acct with Single Owner	Other
18	TAAS 1009	Active Dep Acct with Joint OR Owner	Other
19	TAAS 1010	Dormant Deposit Account Without Restriction	Other
20	TAAS 1011	Active Deposit Account Without Restriction	Other
21	TAAS 1012	Active MTG Accts Unapplied Balance Greater Than Zero	Other
22	TAAS 1013	Active MTG Accts Escrow Balance Greater Than Zero	Other
23	TAAS 1014	Approved Saving Acct Without Passbook and Restriction	Other
24	TAAS 1015	Active Dep Acct with Without Passbook and Parent Txn	Other
25	TAAS 1016	Active MTG Accts with Note Balance Greater Than Zero	Other
26	TAAS 1017	Active CK Account with 1000 bal and without restriction	Other
27	TAAS 1018	Active Savings Account with 1000 balance without restrict	Other

2. Click the “Create SQL” sub menu to bring up the Create SQL Statement screen.



3. Enter the following information:
    a. SQL Name: This is a user defined value. This name will show up in a dropdown list under the Category when using the application, so it is recommended to define a naming convention that makes it easy for the User to find and use their desired statement. Example: TAAS 1001 or SQL 200
    b. Description: This is a user defined value. Example: Active Savings Accounts with User Field Value
    c. Category: This is a system defined value. Select from the dropdown list values and assign a Category that best fits the SQL Statement’s area or test group.
    d. Comments: This is a user defined value. This will contain a more defined description of what the SQL Statement will return in the Search Results.
    e. Copy/Paste a SQL Statement or add a SQL Statement in the large box. The SQL Statements must return only an Object Number and Object Name as those are the only two values to display on the Generate Test Objects screen. An example would be a SQL Statement that returns a Person Number in Column 1, and the Person Name in Column 2.



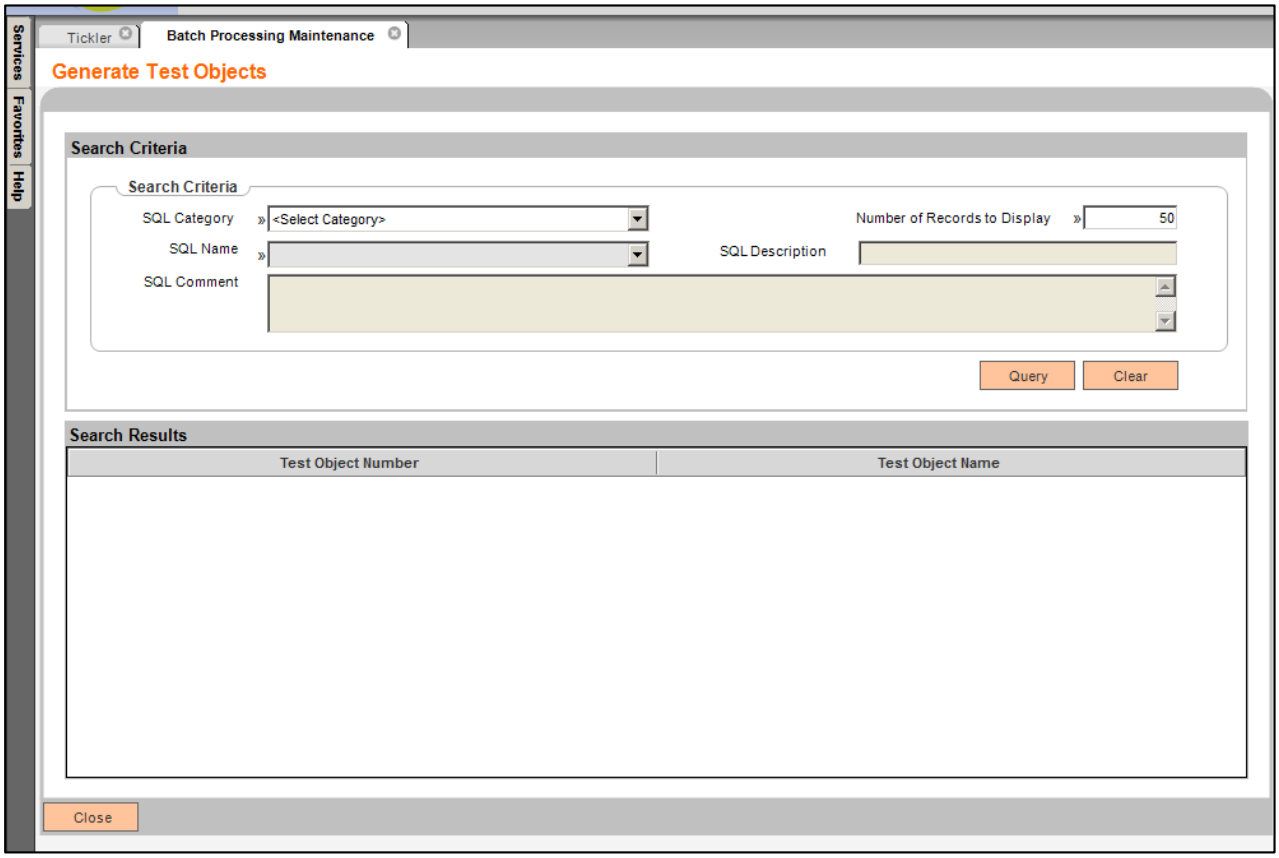
4. Click Process. DNA will assign the SQL Number.

Note: The SQL Statements are stored in the SQLTEST EXTN table. Only SQL statements that are maintained on the Generate Test Objects – SQL Test screen and added to the SQLTEST EXTN table are available on the Generate Test Objects screen to retrieve test data.

Important: the SQL Statements are limited to overall character sizes of 2000 characters.

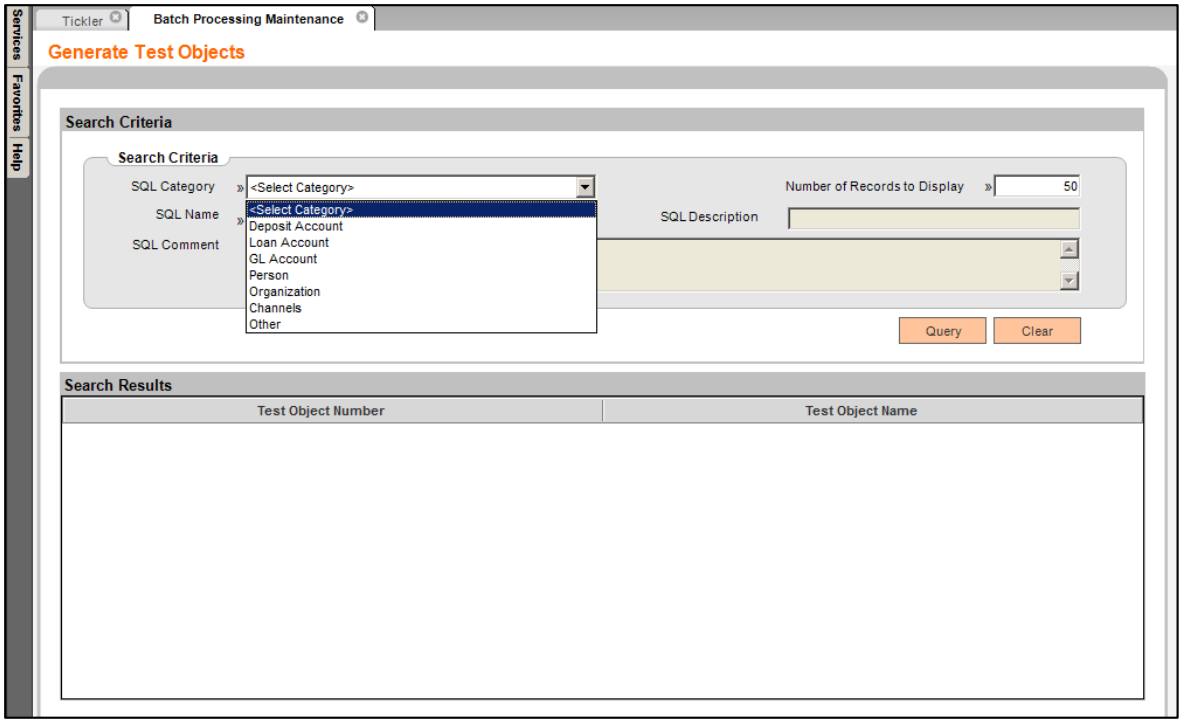
Once the SQL Statements have been created on the Generate Test Objects – SQL Test screen, the User can then access the Generate Test Objects screen and retrieve their test data numbers to begin their testing. The User would follow the steps below to retrieve their test data.

1. The User would access the Generate Test Objects screen via Services > Batch > View > Generate Test Objects.

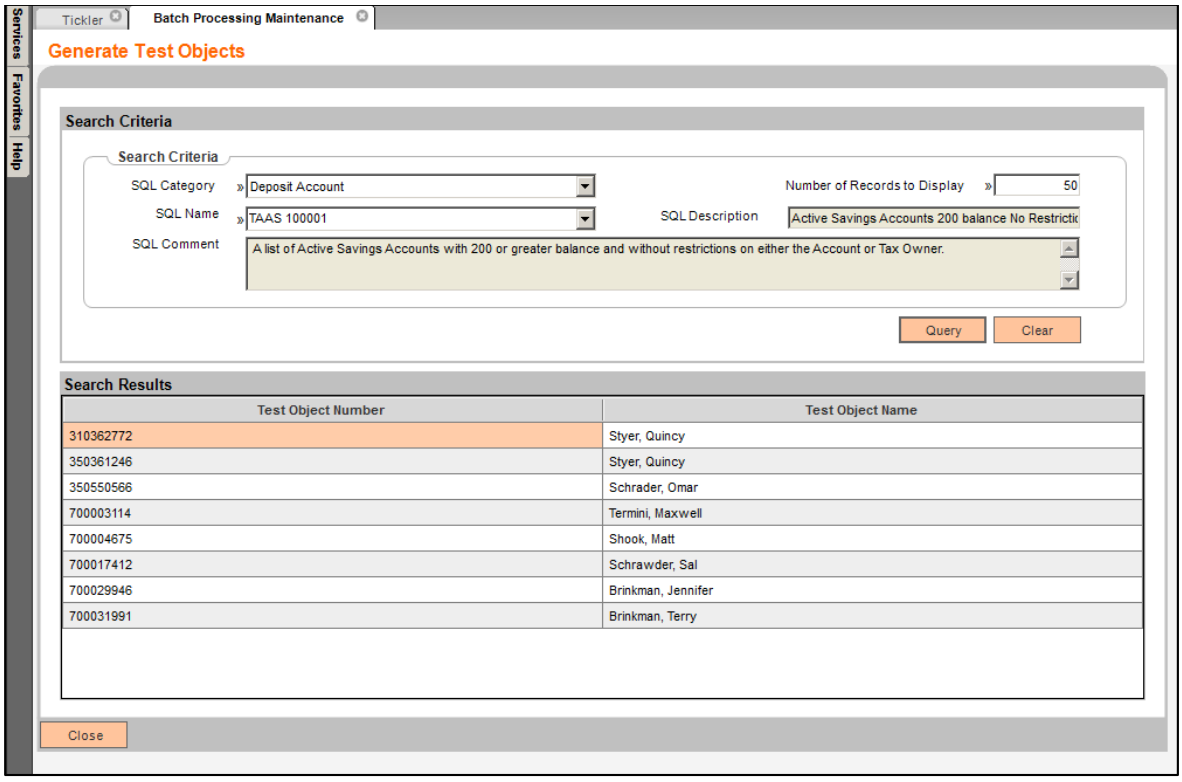


2. The User would then select from the SQL Category, which would then present a dropdown list of SQL Name queries to be selected from via the SQL Name field. The User may also elect to use the system default of a maximum of 50 records to display, or change this number per application allowances (see Screen Appearance for more

details on allowed values and recommendations).



3. When the desired SQL Name is selected, the User would then click the Query button to return the test data for the SQL Name entered. The SQL Description and SQL Comments (if applicable) will also display on the screen.

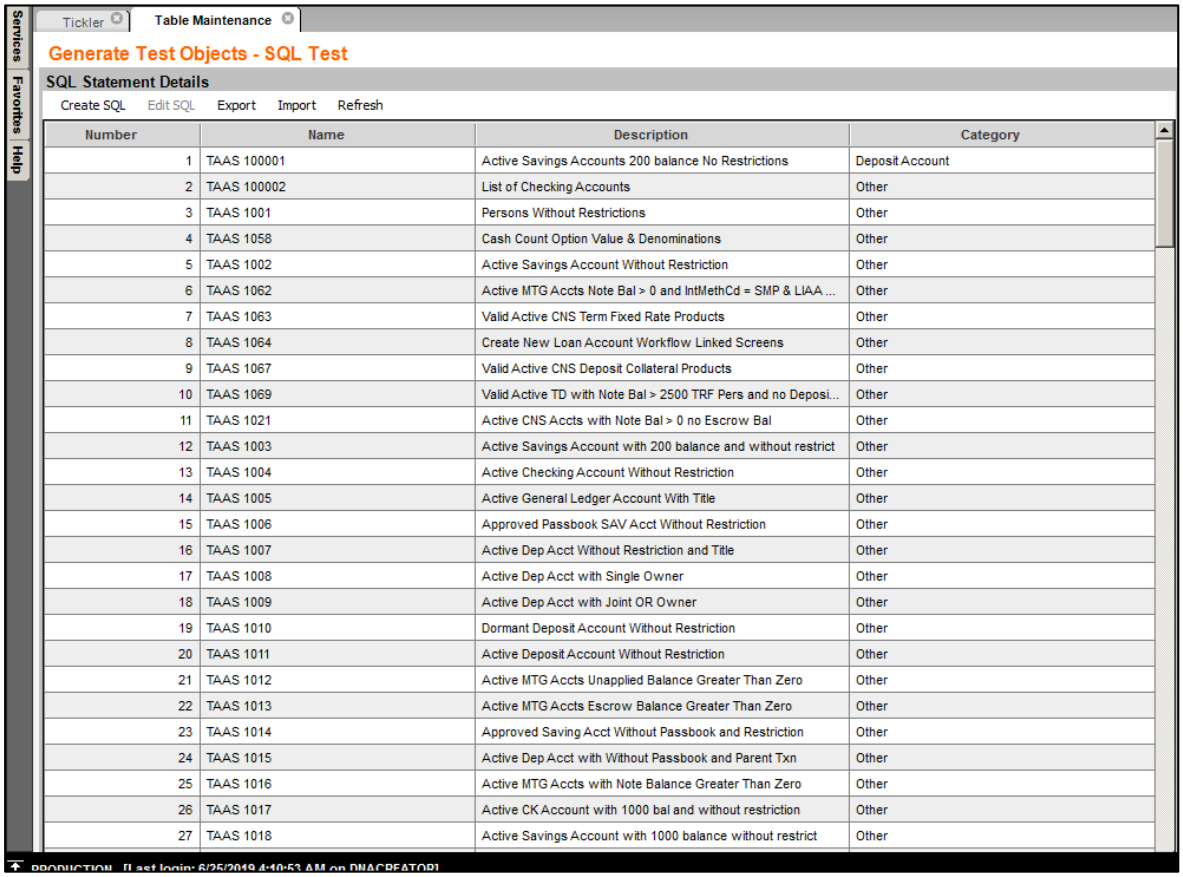


Note: If the SQL Statement that was written does not return a value when the User enters the SQL Name and clicks the Query button, the screen will display the SQL Description, SQL Comments (if applicable) and will show no data in the Search Results grid.

If the Financial Institution utilizes multiple databases for testing and/or wants to add the same SQL Statements from their test database to their production database, they can utilize the Export and Import functions of this application.

To export the SQL Statements from one database and import to another, the User would follow the steps below:

1. Navigate to Services > System > Printing Operations > Generate Test Objects – SQL Test to access the Generate Test Objects – SQL Test screen.



Number	Name	Description	Category
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12	TAAS 1003	Active Savings Account with 200 balance and without restrict	Other
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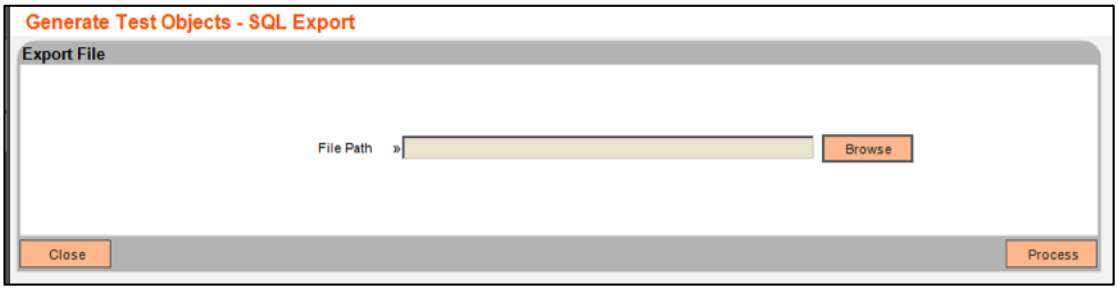
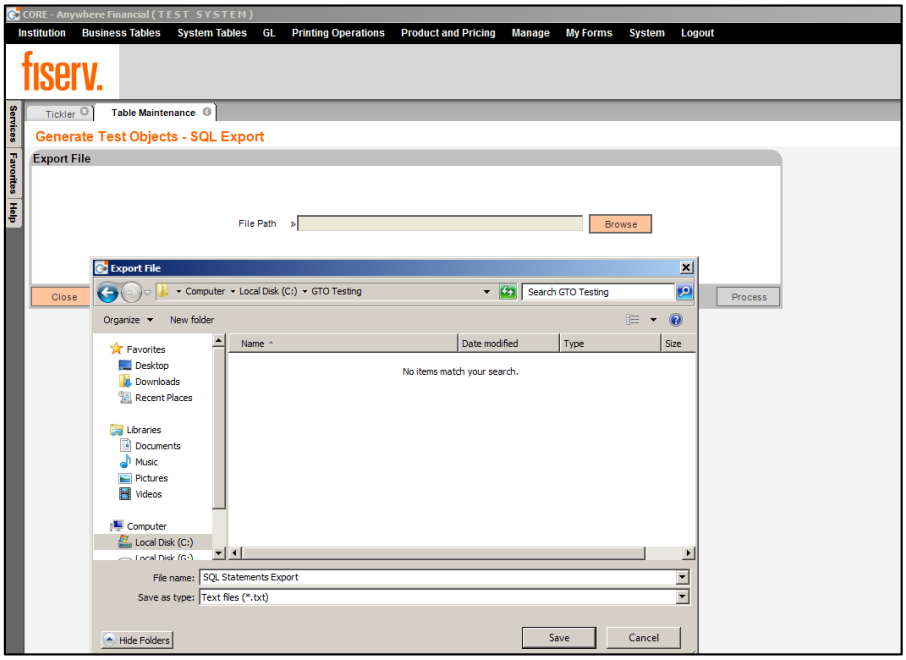
25	TAAS 1016	Active MTG Accts with Note Balance Greater Than Zero	Other
26	TAAS 1017	Active CK Account with 1000 bal and without restriction	Other
27	TAAS 1018	Active Savings Account with 1000 balance without restrict	Other

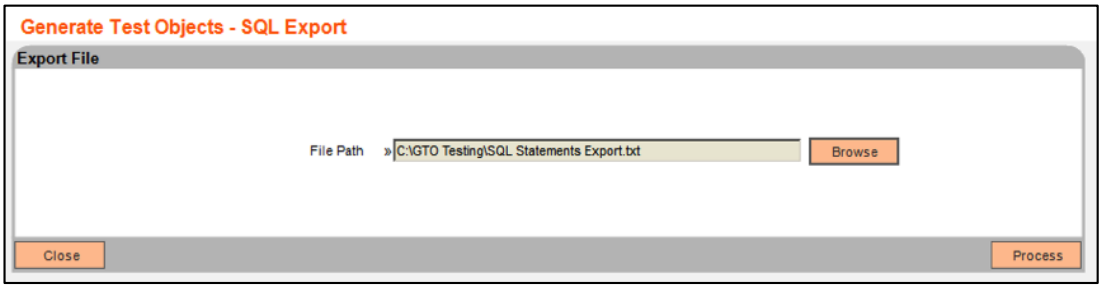
2. Select the Export menu item to display the Generate Test Objects – SQL Export screen.



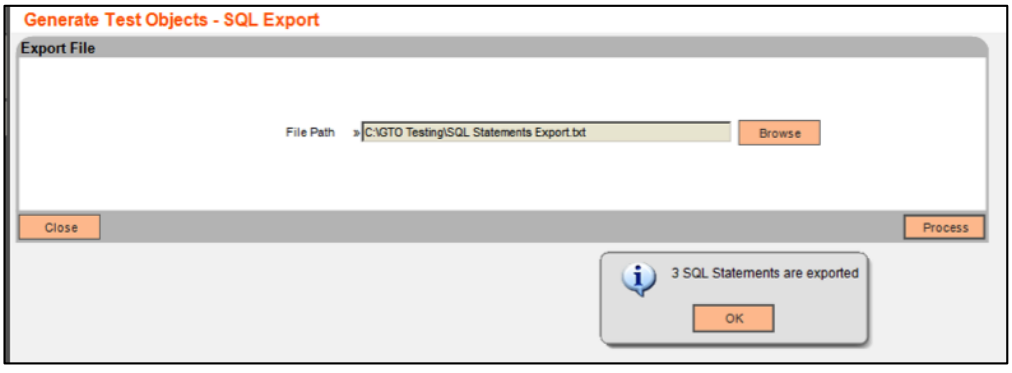
3. Click the Browse button to navigate to the location where the export file will be saved and to name the file. Note: File Name for this example is SQL Statements Export.



4. Click the Save button to save the file name and location and return the values to the File Path field.



5. Click the Process button to create the export file. The success message is displayed.



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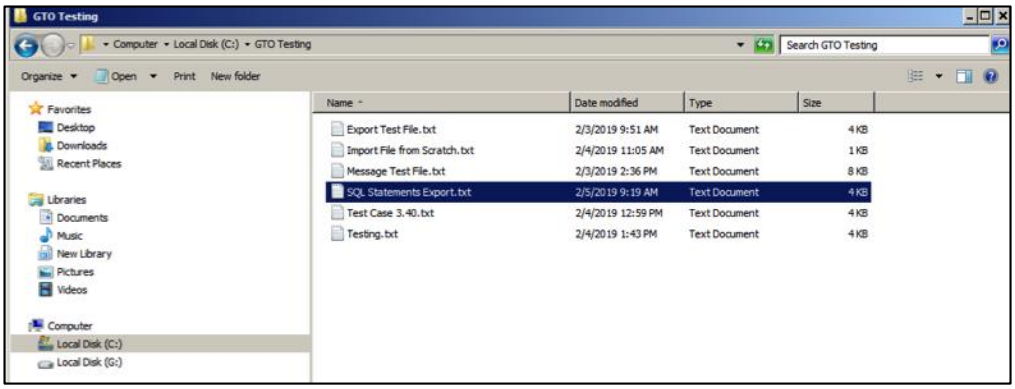
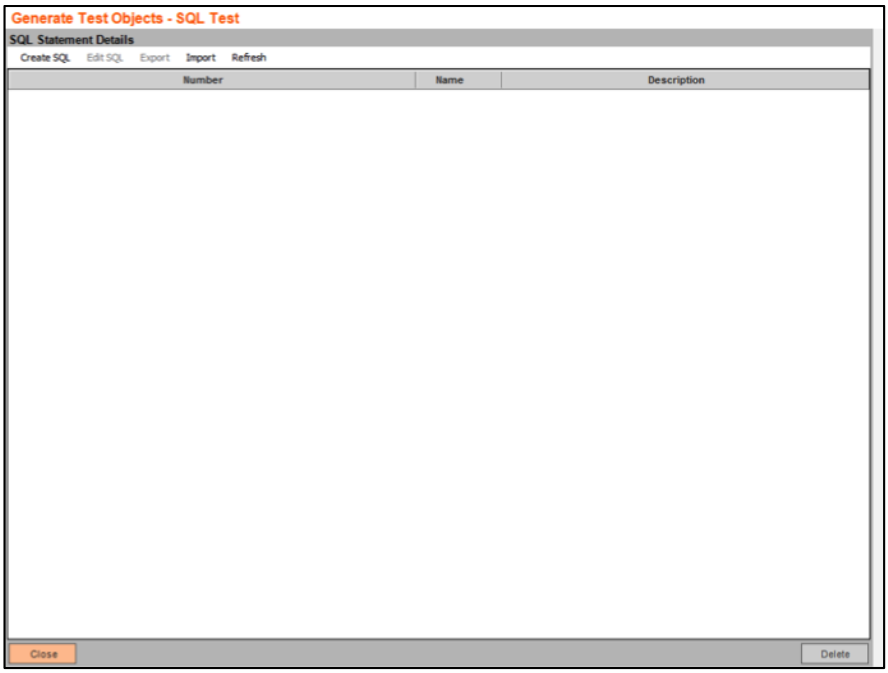
6. Click the OK button on the “X SQL Statements are exported” message, where ‘X’ represents the number of SQL Statements that will be exported.

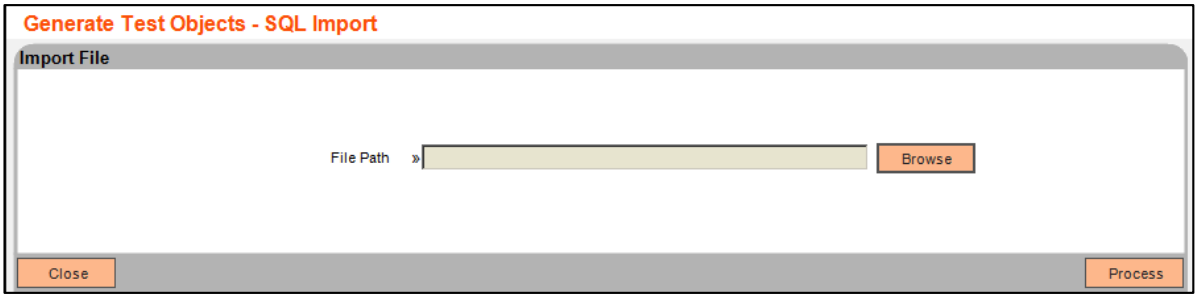
7. Verify the SQL Statements Export file was created in the designated file path.



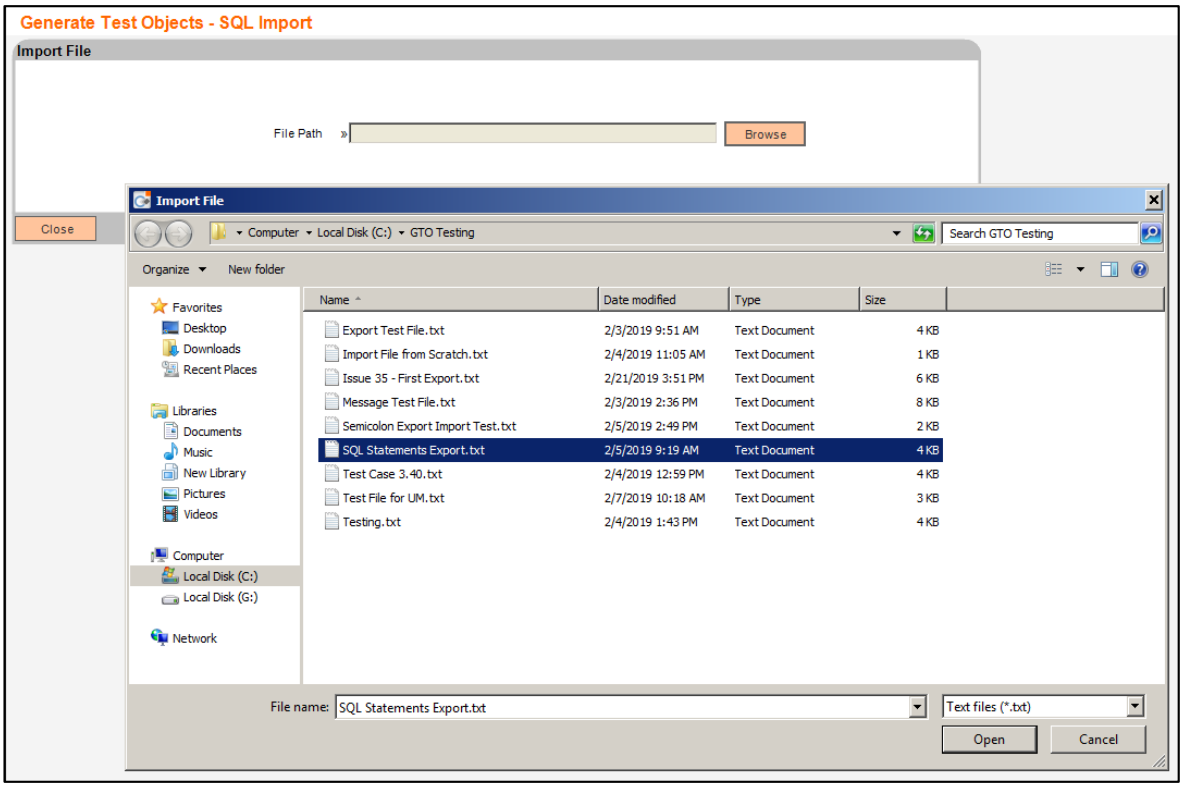
8. Access the database that the SQL Statements are to be imported and navigate to the Generate Test Objects – SQL Test screen.



9. Select the Import menu to display the Generate Test Objects – SQL Import screen.

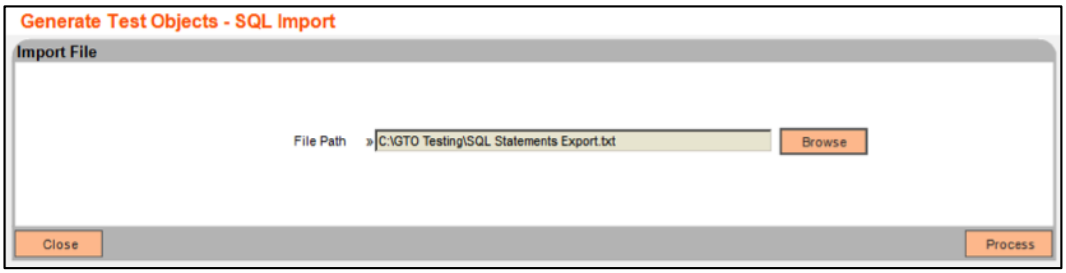


10. Click the Browse button to locate the previously exported file is located.

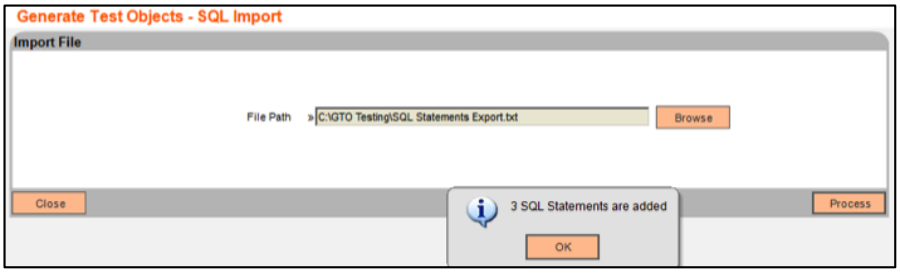


Note: Only an export file generated on the Generate Test Objects – SQL Test screen can be used for the Import process.

11. Click the Open button to save the file name and location to the File Path field on the Generate Test Objects – SQL Import screen.

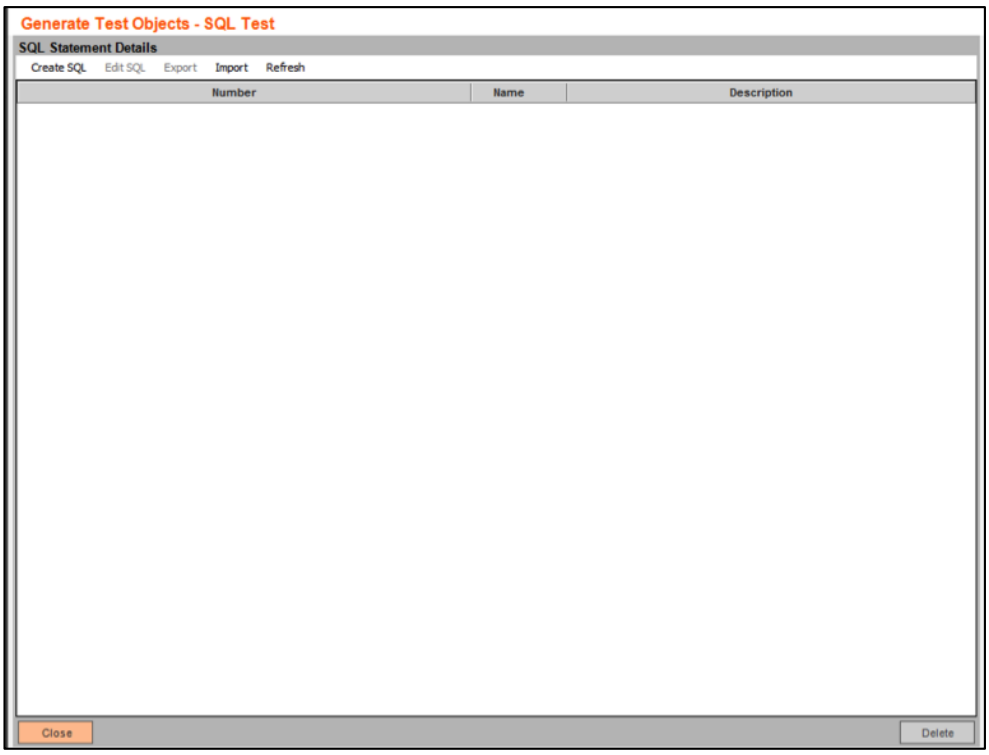


12. Click the Process button. The success message is displayed.



13. Click OK to the "3 SQL Statements are added" message and return to the screen.

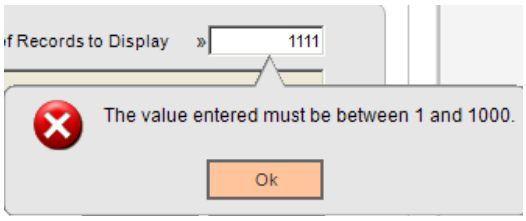
14. Click the close button to close the Generate Test Objects – SQL Import screen and return to the Generate Test Objects – SQL Test screen.



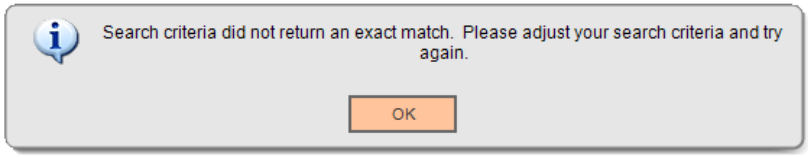
15. Select the Refresh menu to refresh the screen and display the SQL Statements that were added.

Application Messages:

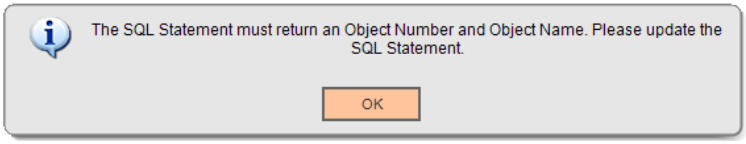
If the User attempts to change the default value of 50 to a number greater than 1000 in the 'Number of Records to Display' on the 'Generate Test Objects' screen, the following message will be displayed "The value entered must be between 1 and 1000.'



If the User enters a SQL Name that does not have an exact match to a SQL Statement in the SQLTEST EXTN table, the following message will be displayed "Search criteria did not return an exact match. Please adjust your search criteria and try again."

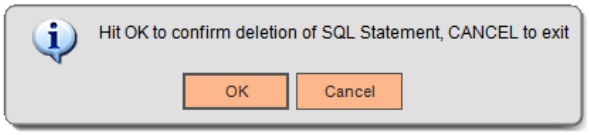


If the User enters a SQL Name and the SQL Statement for that SQL Name does not return a valid number and name combination in the results, the following message will be displayed "The SQL Statement must return an Object Number and Object Name. Please update the SQL Statement."



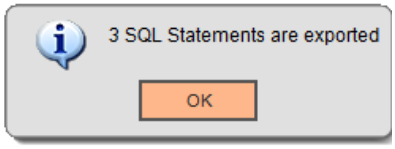
Note: The SQL Statement must return a Number in the first column and a Name or Description in the second column, such as a Person Number & Person Name or Account Number and Account Owner Name.

If the User selects a record and clicks the Delete button on the Generate Test Objects – SQL Test screen, the following message is displayed "Hit OK to confirm deletion of SQL Statement, CANCEL to exit."

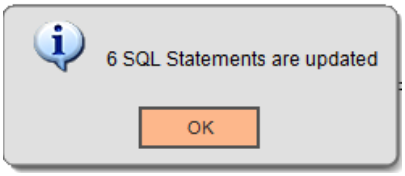


Note: If the User selects OK, the SQL Statement is deleted and removed from the SQLTEST EXTN table. If the User selects Cancel, the action is canceled, and they are returned to the Generate Test Objects – SQL Test screen.

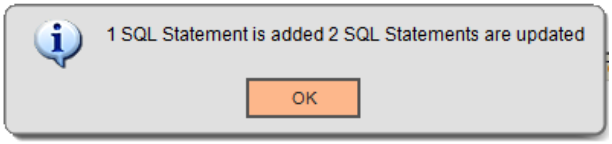
When creating an export file on the Generate Test Object – SQL Export screen, once the Process button is selected and the file is exported successfully, the following message is displayed "<Number> SQL Statements are exported." The <Number> dynamically displays the actual number of SQL Statements exported from the SQLTEST EXTN table.



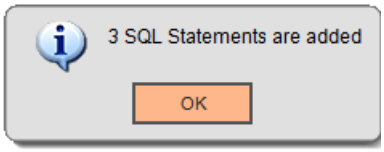
When importing a file on the Generate Test Object – SQL Import screen with SQL Statements that already exist, once the Process button is selected and the file is imported successfully, the following message is displayed "<Number> SQL Statements are updated". The <Number> dynamically displays the actual number of SQL Statements updated from the import file.



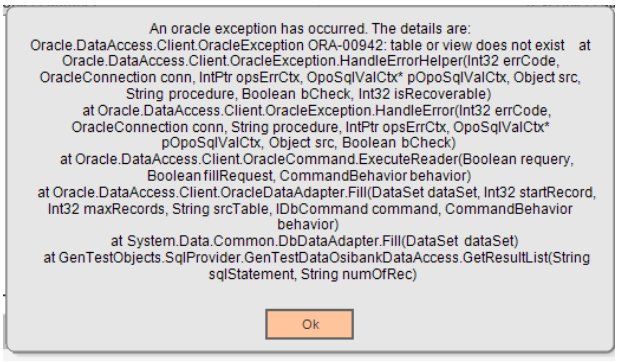
When importing a file on the Generate Test Object – SQL Import screen that contains both existing and new SQL Statements, once the Process button is selected and the file is imported successfully, the following message is displayed "<Number> SQL Statements is added <Number> SQL Statements are updated." The <Number> represents the actual number of SQL Statements updated/added from the import file.



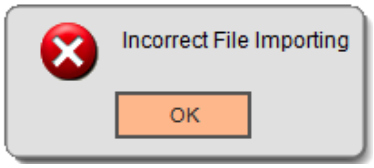
When importing a file on the Generate Test Object – SQL Import screen with new SQL Statements, once the Process button is selected and the file is imported successfully, the following message is displayed "<Number> SQL Statements are added." The <Number> dynamically displays the actual number of SQL Statements updated from the import file.



When attempting to query the test results on the Generate Test Objects screen for a SQL Statement that was created is invalid and/or incorrectly written, when the Query button is selected, an Oracle exception message is displayed.



When attempting to Import a file that was not generated from the Export function within the Generate Test Objects application, the following message is displayed "Incorrect File Importing".



Parameters:
N/A

Variables:
N/A

Tables:
The **SQLTEST** EXTN table stores the SQL Statements for the Generate Test Objects application in text format.

Note: When adding a new SQL Statement, the SQLNBR is assigned by adding 1 to the maximum number in the table.

Field Name	Field Description	Primary Key YN	Nullable YN	Data Type	Length	Default
SQLNBR	SQL Number	Yes	No	NUMBER	22,0	
SQLNAME	SQL Name	No	No	VARCHAR2	255	
SQLDESC	SQL Description	No	Yes	VARCHAR2	255	
SQLCOMMENT	SQL Comment	No	Yes	VARCHAR2	255	
SQLTEXT	SQL Statement	No	No	VARCHAR2	2000	
SQLCATEGORY	SQL Category	No	No	VARCHAR2	255	
DATELASTMAINT	Date Last Maintained	No	Yes	DATE		SYSDATE

Scheduling and re-run

N/A

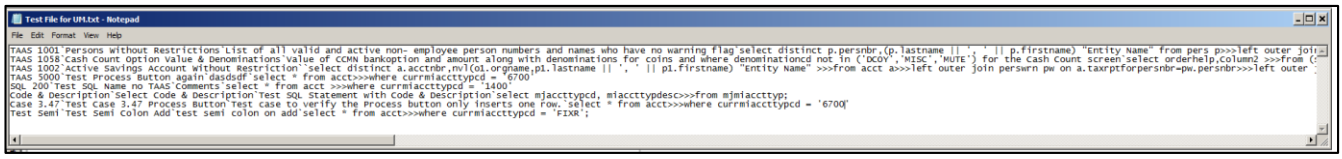
Reports:

N/A
File Layouts:

The Generate Test Objects application creates an export file of the SQL Statements stored in the SQLTEST EXTN table. This export file is then used to import the SQL Statements into another database. The export/import function can only be used within the Generate Test Objects application and the files cannot be manually created.

The SQL Statement information is stored as “text” in the SQLTEST EXTN table.

When the export file is created, the fields are separated by the “`” symbol. If the SQL Statement was created with multiple lines, each line is separated by “>>>” to represent the carriage return when the file is extracted.



Field Listings:

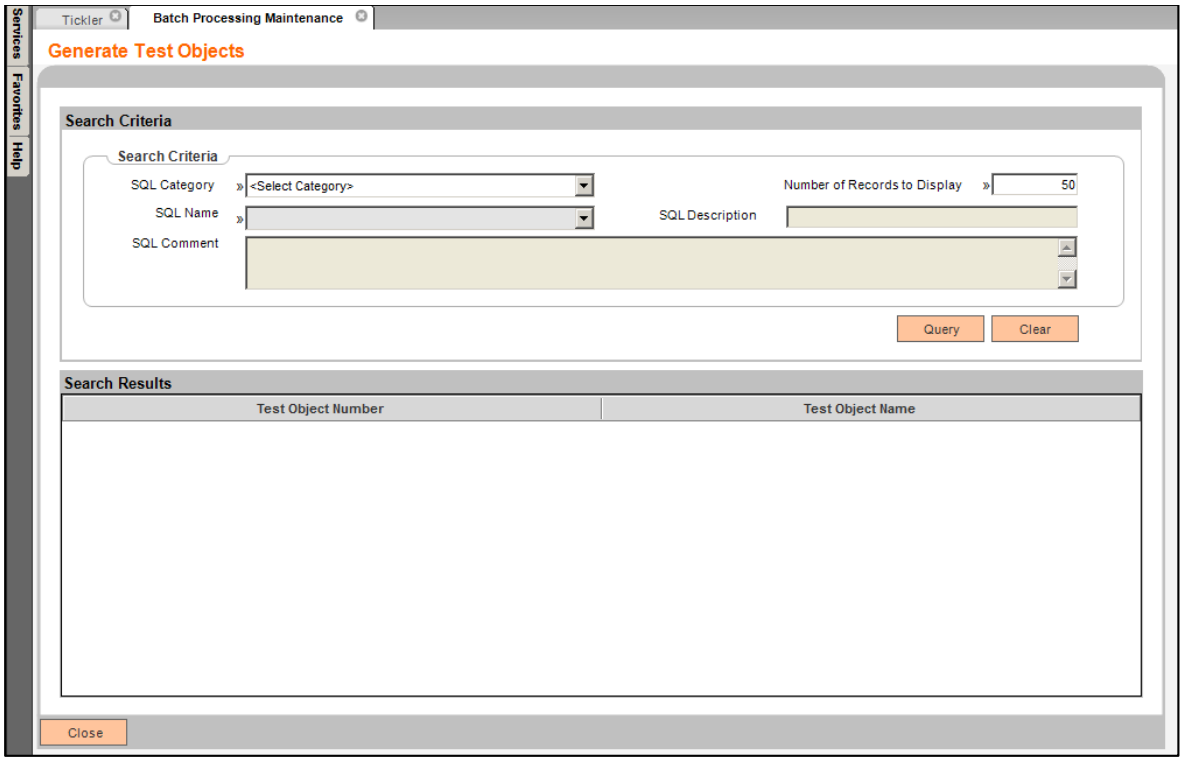
Field	Format	Description
SQLNAME	Text	SQL Name
SQLDESC	Text	SQL Description
SQLCOMMENT	Text	SQL Comments
SQLCATEGORY	Text	SQL Category
SQLTEXT	Text	SQL Statement

Screens:

Navigation:

Services > Batch > View > Generate Test Objects

Screen Appearance (Generate Test Objects):



Field Listing:

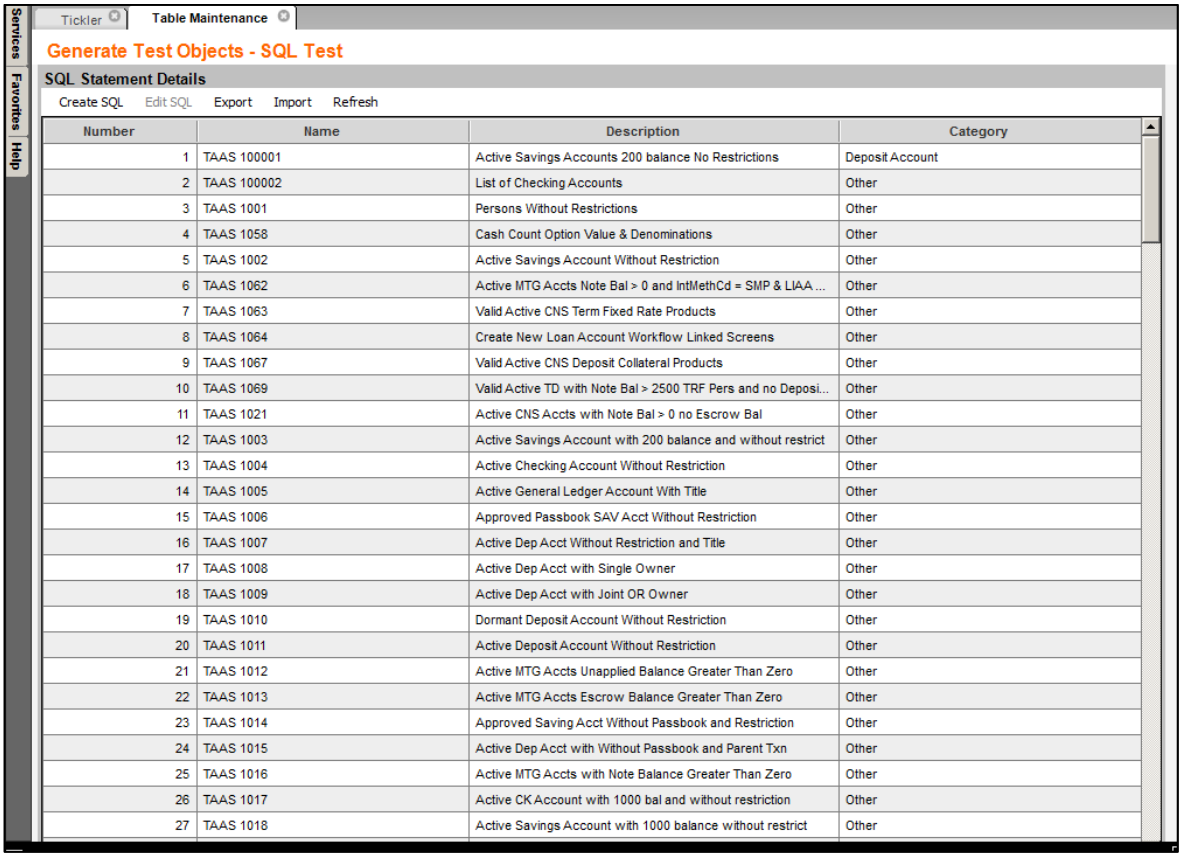
Field	Description
	Search Criteria
SQL Category	System Defined, Dropdown List of Values. The current valid values are: Deposit Account Loan Account GL Account Person Organization Channels Other
SQL Name	The SQL Name of the SQL Statement.
Number of Records to Display	Enabled and displays an initial value of 50. This value controls the maximum number of Search Results to be displayed. The User may change this number on the screen and must use a minimum value of 1, with a maximum value of 1000. Note: it is not recommended to change this value from 50 unless a slightly higher number is needed (e.g. 75 records), as higher values will result in decreased performance.

Field	Description
SQL Description	Disabled Field. Display the SQL Description based on the SQL Name entered when the Query button is selected.
SQL Comments	Disabled Field. Display the SQL Comments based on the SQL Name entered when the Query button is selected. If the SQL Comments for the SQL Statement selected is null, then display blank.
Query <button>	Once the User has entered the SQL Name and select the Query button, the screen will display the SQL Description, SQL Comments (if applicable) and the Search Results. If the User has entered a SQL Name that does not have a match in the SQLTEST EXTN table, then the following message is displayed "Search criteria did not return an exact match. Please adjust your search criteria and try again." If the SQL Statement assigned to the SQL Name entered is not a valid SQL Statement for this application, the following message is displayed "The SQL Statement must return an Object Number and Object Name. Please update the SQL Statement. " Note: Valid SQL Statements for this application must return a Number in the first column and a Name or Description in the second column.
Clear <button>	If the Clear button is selected, all search criteria is cleared, and the User will remain on the Search Criteria section of the Generate Test Objects screen.
Search Results	
Test Object Number	Displays up to X records based on the SQL Name entered in the Search Criteria, where X is the value from the Number of Records to Display field (defined as Y for the example below). Default value is 50. The maximum number of records allowed to display is 1000. If there are less than X records found, only those numbers will display. If there are more than X records found, only the first Y number of records will display based on the SQL Statement selected.
Test Object Name	Display the Name or Description based on the SQL Name entered in the Search Criteria. Based on the SQL Results, the following would be applicable: • For Person Number, display the Person Name • For Organization, display the Organization Name • For Deposit Account Number, display the Tax Reported For Owner Name • For Loan Account Number, display the Tax Reported For Owner Name • For user defined SQL's, display a number in the Test Object Number and display a name and/or description in the Test Object Name. Example: Test Object Number is 1 and the Description is Check – Existing Customer – No Hold.
Close <button>	If the Close button is selected, the screen is closed.

Navigation:

Services > System > Printing Operations > Generate Test Objects – SQL Test

Screen Appearance (Generate Test Objects - SQL Test):



Number	Name	Description	Category
1	TAAS 100001	Active Savings Accounts 200 balance No Restrictions	Deposit Account
2	TAAS 100002	List of Checking Accounts	Other
3	TAAS 1001	Persons Without Restrictions	Other
4	TAAS 1058	Cash Count Option Value & Denominations	Other
5	TAAS 1002	Active Savings Account Without Restriction	Other
6	TAAS 1062	Active MTG Accts Note Bal > 0 and IntMethCd = SMP & LIAA ...	Other
7	TAAS 1063	Valid Active CNS Term Fixed Rate Products	Other
8	TAAS 1064	Create New Loan Account Workflow Linked Screens	Other
9	TAAS 1067	Valid Active CNS Deposit Collateral Products	Other
10	TAAS 1069	Valid Active TD with Note Bal > 2500 TRF Pers and no Deposi...	Other
11	TAAS 1021	Active CNS Accts with Note Bal > 0 no Escrow Bal	Other
12	TAAS 1003	Active Savings Account with 200 balance and without restrict	Other
13	TAAS 1004	Active Checking Account Without Restriction	Other
14	TAAS 1005	Active General Ledger Account With Title	Other
15	TAAS 1006	Approved Passbook SAV Acct Without Restriction	Other
16	TAAS 1007	Active Dep Acct Without Restriction and Title	Other
17	TAAS 1008	Active Dep Acct with Single Owner	Other
18	TAAS 1009	Active Dep Acct with Joint OR Owner	Other
19	TAAS 1010	Dormant Deposit Account Without Restriction	Other
20	TAAS 1011	Active Deposit Account Without Restriction	Other
21	TAAS 1012	Active MTG Accts Unapplied Balance Greater Than Zero	Other
22	TAAS 1013	Active MTG Accts Escrow Balance Greater Than Zero	Other
23	TAAS 1014	Approved Saving Acct Without Passbook and Restriction	Other
24	TAAS 1015	Active Dep Acct with Without Passbook and Parent Txn	Other
25	TAAS 1016	Active MTG Accts with Note Balance Greater Than Zero	Other
26	TAAS 1017	Active CK Account with 1000 bal and without restriction	Other
27	TAAS 1018	Active Savings Account with 1000 balance without restrict	Other

Field Listing:

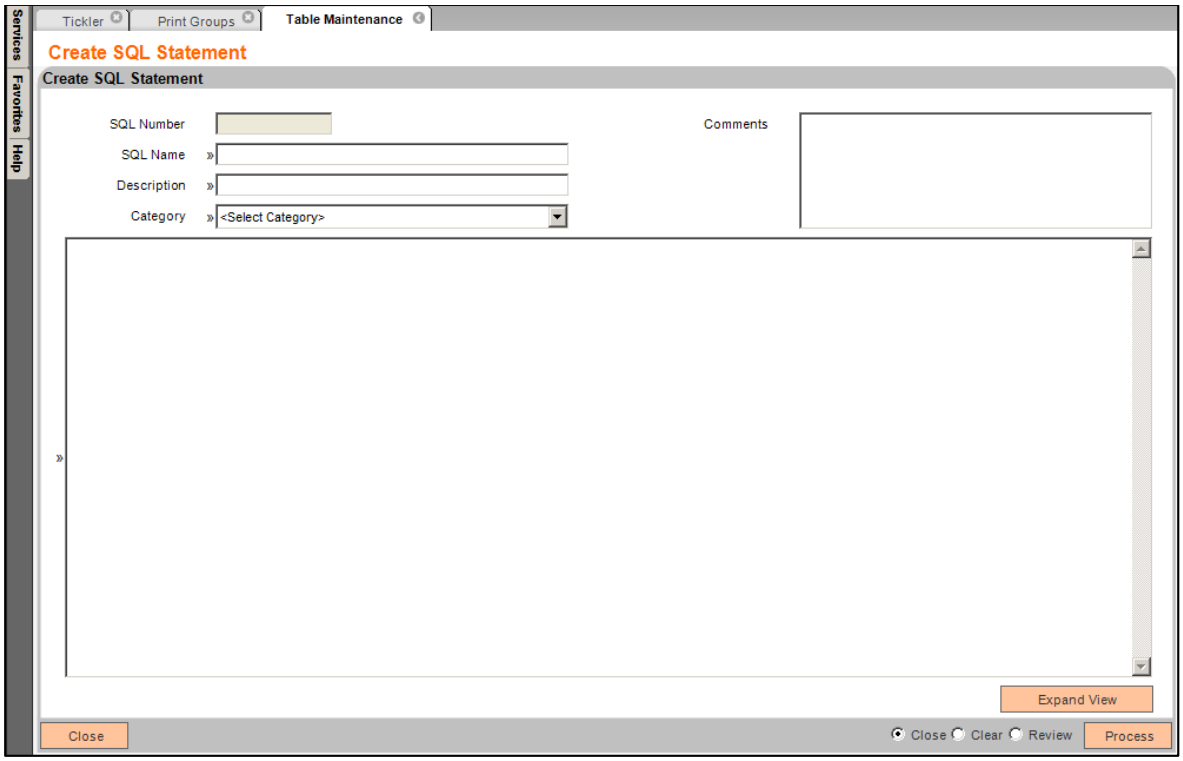
Field	Description
Create SQL <sub menu>	The Create SQL sub menu is used to access the Create SQL Statement screen to add a new SQL Statement to the system and insert the information into the SQLTEST EXTN table.
Edit SQL <sub menu>	The Edit SQL sub menu is used to access the Edit SQL Statement screen to edit a SQL Statement, update the system and insert the updated information into the SQLTEST EXTN table.
Export <sub menu>	When selected, the Generate Test Objects – SQL Export screen is displayed to allow the Financial Institution the ability to create an export file of the SQL Statements in the SQLTEST EXTN table to then import into another database.

Field	Description
Import <sub menu>	When selected, the Generate Test Objects – SQL Import screen is displayed to allow the Financial Institution the ability to import the SQL Statements into the SQLTEST EXTN table from an export file that was created from the Generate Test Objects application in another database.
Refresh <sub menu>	When selected, the Generate Test Objects – SQL Test screen is refreshed, and all SQL Statements display on the screen that are in the SQLTEST EXTN table.
Number	Displays the system assigned number for the SQL Statement.
Name	Displays the SQL Name of the SQL Statement.
Description	Displays the SQL Description of the SQL Statement.
Category	Displays the Category of the SQL Statement.
Close <button>	If the Close button is selected, the Generate Test Objects – SQL Test screen is closed.
Delete <button>	If selected, the SQL Statement that is highlighted in the grid is deleted from the SQLTEST EXTN table and removed from the display on the screen. Once selected, the User is prompted with a confirmation message to allow to complete the action or cancel and return to the screen.

Navigation:

Services > System > Printing Operations > Generate Test Objects – SQL Test > Create/Edit SQL Statement

Screen Appearance (Create/Edit SQL Statement):



Field Listing:

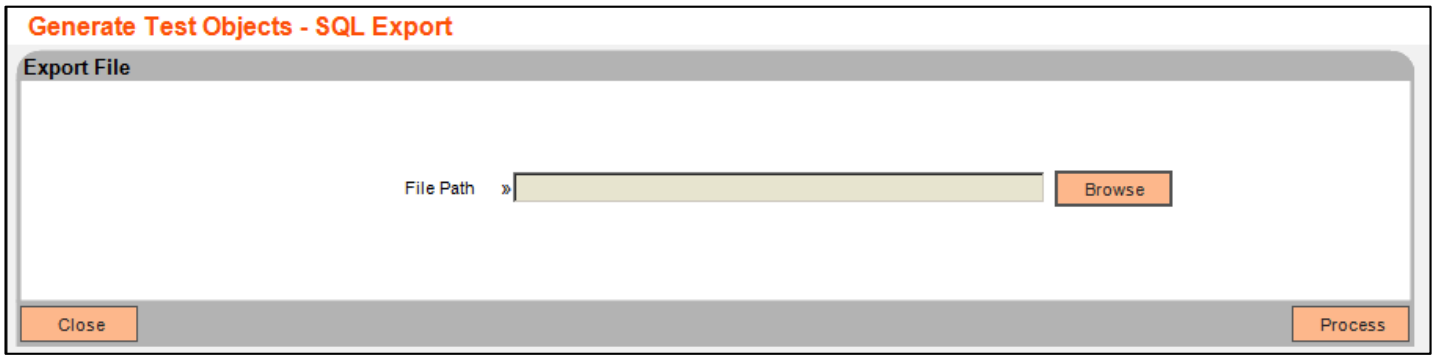
Field	Description
SQL Number	Disabled Field. System assigned number.
SQL Name	User Defined. The name of the SQL Statement.
Description	User Defined. The short description of the SQL Statement.
Category	System Defined, Dropdown List of Values. The current valid values are: Deposit Account Loan Account GL Account Person Organization Channels Other
Comments	User Defined. Allows the User to enter a more detailed description of what the SQL Statement represents.
SQL <box>	This large white box is where the User will enter the SQL Statement.
Expand View <button>	Selecting the Expand View button makes the box larger to see the whole area without using a scroll bar.
Close <button>	When selected, the screen is closed.
Close <radio button>	When selected and the Process buttons are selected, the SQL's are added/updated, and the screen will close.

Field	Description
Review <radio button>	When selected and the Process button is selected, the SQL's are added/updated, and the screen will remain open.
Process <button>	Once the Process button is selected, the SQL information is added/updated to the SQLTEST EXTN table.

Navigation:

Services > Batch > View > Generate Test Objects – SQL Test > Export

Screen Appearance (Generate Test Objects – SQL Export):



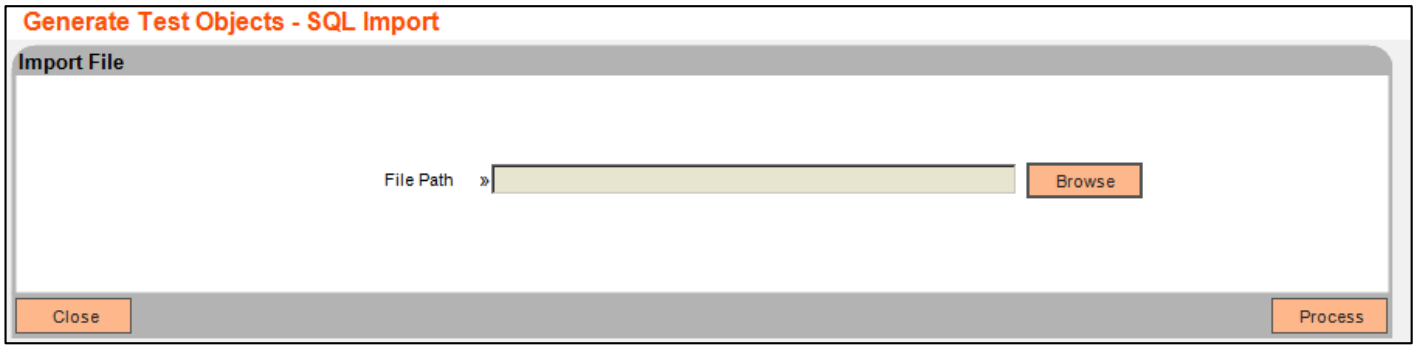
Field Listing:

Field	Description
File Path	Disabled. Once the file is selected, the file name and location display in the File Path field.
Browse <button>	When selected, allows the User to browse to the location where the export file will be saved and name the file.
Close <button>	When selected, the screen is closed.
Process <button>	When selected, the export file is created and saved to the location in the File Path field. A message is displayed stating the number of SQL Statements are exported.

Navigation:

Services > Batch > View > Generate Test Objects – SQL Test > Import

Screen Appearance (Generate Test Objects – SQL Import):



Field Listing:

Field	Description
File Path	Disabled. Once the file is selected, the file name and location display in the File Path field.
Browse <button>	When selected, allows the User to browse to the location where the export file has been saved and displays the file name and location in the File Path field.
Close <button>	When selected, the screen is closed.
Process <button>	When selected, the import file is imported, and the SQL Statements added or updated in the SQLTEST EXTN table. A message is displayed stating the number of SQL Statements are added/updated. If the SQL Statement already exists, the SQL Statement is updated. If the SQL Statement does not exist, it is added. If there is a combination of existing and new SQL Statements, the message lists the number that are added and the number that are updated.

Additional Requirements:

- DNA 4.4.1 or higher.
- In order to export/import the SQL Statements to/from multiple databases, the DNA Test Optimizer application must be installed and authorized in all databases.
- Only the export files generated from the Generate Test Objects – SQL Test screen can be used to import the SQL Statements into a database.
- If upgrading from the V1.0.0.0 version, existing SQL Statements will be assigned a Category of 'Other' as part of the upgrade process. These SQL Statements may be edited to assign a preferred category from the available list.

Configuration Checklist:

Item	Test Environment	Production Environment
Ensure the User has been assigned access to the Batch and System Modules as appropriate.		
Ensure the "SQL – SQL Maintenance" authorization item has been assigned and appropriate permissions granted.		

Item	Test Environment	Production Environment
Ensure the SQL Statements have been created on the Generate Test Object – SQL Test screen.		

Revisions:

Date	App Version #	Change
08/2019	1.0.0.1	Application updated. Enhancements include the ability to assign categories to help filter the SQL queries for User selection, screen-level functionality to choose the maximum number of records returned, and the ability to copy a record from the returned records grid to then be pasted on another DNA screen (using the CTRL+C and CTRL+V Windows functionality) to help facilitate testing ease.
02/2019	1.0.0.0	Application Created