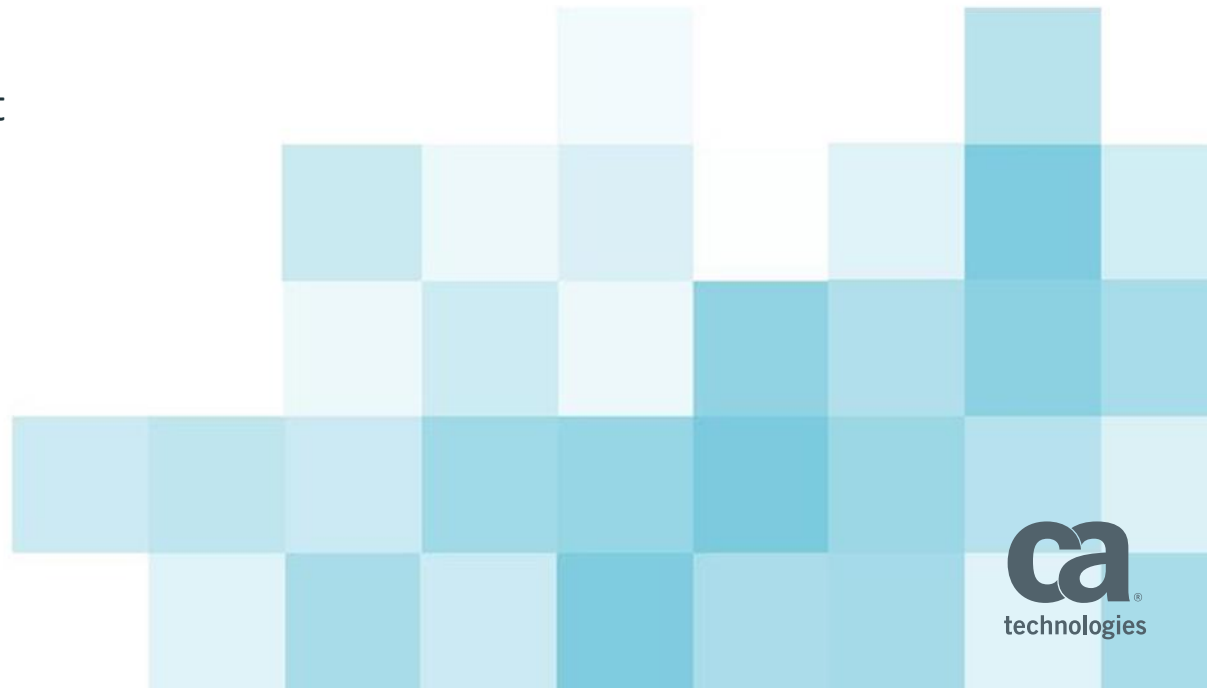


CA Test Data Manager Community Webcast Series

TDM Portal - Using Shredder to Import/Export Data

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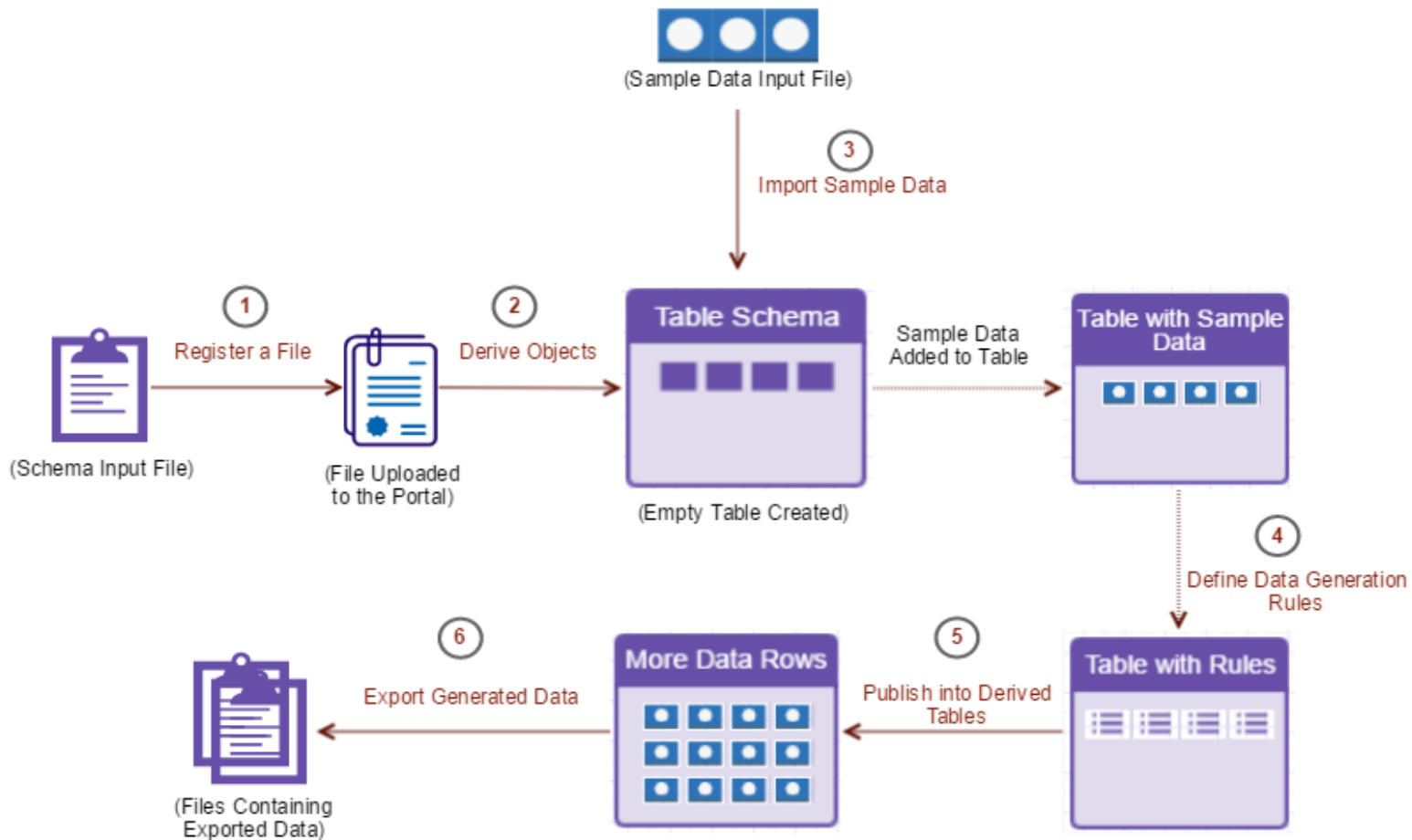
What We'll Cover in Today's Webcast

- Overview
 - Description
 - List of Data Sources
- Flow Diagram
- Step by Step
 - Register/Import File
 - Create and Register derived Objects
 - Import Data
 - Define Data Generation Rules
 - Publish Data
 - Export Generated Data
- Live Demo

OVERVIEW

- Description
 - Formerly a CLI Utility - Shredder
 - Moved into the CA TDM Portal
 - Allows you to be able to generate test data from non-relational data sources
 - allows a test engineer to run through various scenarios to test their applications
- Data Sources
 - XSD
 - XML
 - WSDL
 - JSON
 - RR Pair
 - G-T Excel
 - CSV
- Pre-Requisites
 - Project and Version
 - Data Generator
 - Connection Profile

FLOW DIAGRAM



STEP BY STEP - REGISTER

- Register file objects
 - 1st step
 - in context of a project and its version
 - various data manipulation operations

The screenshot displays the 'Test Data Manager Portal' interface. The top navigation bar shows the 'Project: Purchase_Order [1.0]'. The left sidebar has 'Modeling' selected, with 'Objects' highlighted. The main area shows the 'Register New Object(s)' form. Red annotations indicate the following steps:

- Clicking 'REGISTER NEW OBJECT(S)' in the top bar.
- Selecting 'XSD' from the 'Object Type' dropdown.
- Entering 'Purchase_Order' in the 'Name' field.
- Uploading the file 'PurchaseOrder_Schema.xsd' in the 'File(s) to Upload' section.
- Clicking the 'REGISTER' button at the bottom right.

Below the form, a table lists the registered objects:

ObjectID	Name	Type	Status	Connection Profile	Schema Name
753	Purchase_Order	XSD	Registered		PurchaseOrder_753

STEP BY STEP– DERIVED OBJECTS

- Create and register derived objects
 - represent relational tables
 - Convert the non-relational data model into a relational model
 - Register created relational tables

The screenshot displays the Test Data Manager Portal interface. The top navigation bar shows the project as 'Purchase_Order [1.0]' and the user as 'administrator'. The left sidebar contains a menu with 'Modeling' selected, showing 'Objects' and 'Variables'. The main content area is titled 'Purchase_Order' and shows the 'Schema Name' as 'PurchaseOrder_753'. The 'Type' is 'XSD'. The 'Connection Profile' is 'TDM-Shred-TARGET'. The 'Derived Tables' section is highlighted, showing a table with the following rows:

Table Name
billTo
item
items
purchaseOrder_tdm_root
shipTo

At the bottom of the interface, there is a button labeled 'CREATE AND REGISTER TABLES'.

STEP BY STEP - IMPORT

- Import sample data
 - Subsequently create data generation rules

The screenshot displays the 'Test Data Manager Portal' interface. The main panel shows the configuration for the 'Purchase_Order' object, including its type (XSD), schema name (PurchaseOrder_753), and connection profile (TDM-Shred-TARGET). Below this, the 'Derived Tables' section lists 'billTo', 'item', and 'items'. A sidebar on the left contains navigation links for Modeling, Generators, Self Service Flows, Self Service Catalog, Submitted Requests, and Configuration. The 'Generators' section is active, showing the 'Purchase_Order_Gen' configuration with a description, project, and version. The 'billTo' table is displayed with columns: Row, SHRED_ID, SHRED_GROUP_ID, country, name, and street. The 'Import Data' dialog is open on the right, showing the object name, document group ID, and a list of uploaded files. The 'Import To Generator' checkbox is checked, and the 'Data Generator Connection' is set to 'Purchase_Order_Gen'. The 'IMPORT' button is highlighted with a red box.

Objects > Purchase_Order

Purchase_Order

Type: XSD | Schema Name: PurchaseOrder_753 | Connection Profile: TDM-Shred-TARGET

> Advanced Settings

Derived Tables

Table Name
billTo
item
items

Test Data Manager Portal

Project: Purchase_Order [1.0] | administrator

Generators > Purchase_Order_Gen

Purchase_Order_Gen

Description: Purchase_Order_Gen | Project: Purchase_Order | Project Version: 1.0 | Available for Self Service: ☐

SELECT TABLES | ACTIONS | CONFIGURATIONS | RELATIONAL EDIT | VARIABLES | PUBLISH

billTo

Row	*SHRED_ID	SHRED_GROUP_ID	country	name	street
1	128		US	Robert Smith	8 Oak Avenue

Import Data

Object Name: Purchase_Order

Document Group ID:

> Advanced Settings

File(s) to Upload *

Drag and Drop file (or click)

Uploaded Files: Purchase_Order_Sample.xml | Complete

☒ Import To Generator

Data Generator Connection *

Purchase_Order_Gen

IMPORT | **CANCEL**

STEP BY STEP – Data Generation

■ Define data generation rules

Relational Edit

- ☒ Make All Children References
- ☒ Make All Parents default

OK

CANCEL

Relational Editor Results

Child References Result

purchaseOrder_tdm_root	3 Child Rows Updated
billTo	0 Child Rows Updated
items	2 Child Rows Updated
shipTo	0 Child Rows Updated
item	0 Child Rows Updated

Parent Default Result

purchaseOrder_tdm_root	1 Parent Rows Updated
billTo	1 Parent Rows Updated
	1 Parent Rows Updated
	1 Parent Rows Updated
	2 Parent Rows Updated

Test Data Manager Portal

Project: Purchase_Order [1.0]

Modeling

Generators

Self Service Flows

Self Service Catalog

Submitted Requests

Configuration

Generators > Purchase_Order_Gen

Purchase_Order_Gen

Description: Purchase_Order_Gen Project: Purchase_Order Project Version: 1.0 Available for Self Service: ☐

SELECT TABLES ACTIONS CONFIGURATIONS RELATIONAL EDIT VARIABLES PUBLISH

billTo

Row	*SHRED_ID	SHRED_GROUP_ID	country	name	street	city
1	@nextval(SHRED_ID_SEQ)@		US	@randlov(0,@seedlist(FirstNa...	@addrand(25,10,200)@ @ran...	@randlov(0,@seedlist(US

shipTo

Row	*SHRED_ID	SHRED_GROUP_ID	country	name	street	city
1	@nextval(SHRED_ID_SEQ)@		US	@randlov(0,@seedlist(FirstNa...	@addrand(25,10,200)@ @ran...	@randlov(0,@seedlist(US

By clicking OK the page will get refreshed and any unsaved data will be lost. Alternatively, you can choose to close the dialog.

OK

STEP BY STEP – PUBLISH DATA

■ Publish data into derived tables

Test Data Manager Portal

Project: Purchase_Order [1.0] administrator

Modeling > Generators > Purchase_Order_Gen

Purchase_Order_Gen

Description: Purchase_Order_Gen Project: Purchase_Order Project Version: 1.0 Available for Self Service: ☐

SELECT TABLES ACTIONS CONFIGURATIONS RELATIONAL EDIT VARIABLES **PUBLISH**

billTo

Row	*SHRED_ID	SHRED_GROUP_ID
1	@nextval(SHRED_ID_SEQ)@	

shipTo

Row	*SHRED_ID	SHRED_GROUP_ID
1	@nextval(SHRED_ID_SEQ)@	

Test Data Manager Portal

Project: Purchase_Order [1.0] administrator

Modeling > Generators > Purchase_Order_Gen > Publish

Publish From* All Schemas

Table Name	Seq	Rows in Table	Schema	Table Count	Include
purchaseOrder_tdm_root	1	1	PurchaseOrder_753	1	<input checked="" type="checkbox"/>
billTo	2	1	PurchaseOrder_753	1	<input checked="" type="checkbox"/>
Items	3	1	PurchaseOrder_753	1	<input checked="" type="checkbox"/>
shipTo	4	1	PurchaseOrder_753	1	<input checked="" type="checkbox"/>
Item	5	2	PurchaseOrder_753	@randrange(1,10)@	<input checked="" type="checkbox"/>

Publish To* Connection Profile File

TDM-Shred-TARGET

Repeat* 5

Schema* PurchaseOrder_753

Variables Default Values

Email

Schedule Publish

Now Schedule 13 Oct 2016 04:07 AM

PUBLISH CANCEL

STEP BY STEP – EXPORT DATA

- Export the generated data from derived objects into appropriate file formats.

The screenshot shows the 'Test Data Manager Portal' interface. The top navigation bar includes the 'ca technologies' logo, the portal name, a project dropdown set to 'Purchase_Order [1.0]', and user information 'administrator'. The left sidebar contains navigation links: Modeling (selected), Objects, Variables, Generators, Self Service Flows, Self Service Catalog, Submitted Requests, and Configuration. The main content area is titled 'Purchase_Order' and shows details for 'Type: XSD', 'Schema Name: PurchaseOrder_753', and 'Connection Profile: TDM-Shred-TARGET'. Below this, the 'Derived Tables' section is highlighted with an orange underline. It contains a table with the following data:

Table Name
billTo
item
items
purchaseOrder_tdm_root
shipTo

To the right of the table are icons for upload and download. The right sidebar, titled 'Export Data', contains settings for 'Connection Profile' (TDM-Shred-TARGET), 'Schema Name' (PurchaseOrder_753), 'No of Files' (6), and 'Document Group ID' (empty). There is a 'Publish' section with a 'Publish Files' checkbox. At the bottom of the sidebar are 'Advanced Settings' and two buttons: 'EXPORT' (highlighted with a red box) and 'CANCEL'.

Demonstration



Session Summary

- This session presented with the following information
 - Provided an overview of the functionality and the supported non-relational data sources
 - Reviewed a basic flow of steps to take
 - Simple Import/Export Use Case using XSD/XML sources

Questions?

Comments?





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