Test Data Manager - DevTest Integration Use case - Explained with pictures

USE CASE HAS BEEN VALIDATED WITH TDM 4.7 and Devtest 10.2 and 10.4

We have a pretty good integration use case story with Test Data Manager and DevTest.

https://docops.ca.com/ca-test-data-manager/4-7/en/provisioning-test-data/defining-test-data/defining-test-data-using-the-ca-tdm-portal/prepare-test-data-for-non-relational-data-sources/xsd-xml-wsdl-json-rr-pair-file-types/integration-with-ca-service-virtualization

The main use case being, "The ability to augment Virtual service with the synthetic data that is generated by TDM"

The documentation available is pretty lucid and well structured. Though it can wear you out with too many steps involved. Nevertheless it works well as I was able to achieve the following by sticking to the product doc

TDM SIDE

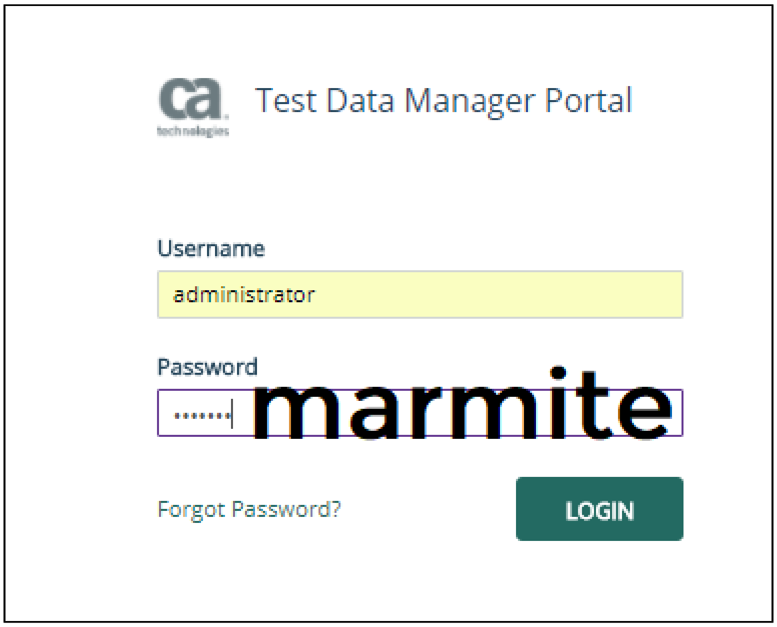
1. Define a project
2. Register a WSDL which creates an object for you
3. Define DB Connection
4. Create derived objects from WSDL into DB
5. Define GENERATOR
6. Import single data from RR pair
7. Define Devtest portal connection
8. Define data generation rules
9. Generate synthetic data
10. Export synthetic data to VS
11. Verify if the VS has been augmented with synthetic data from TDM

DevTest Side

Create VS using WSDL

A picture is worth 10,000 words - The story in pictures

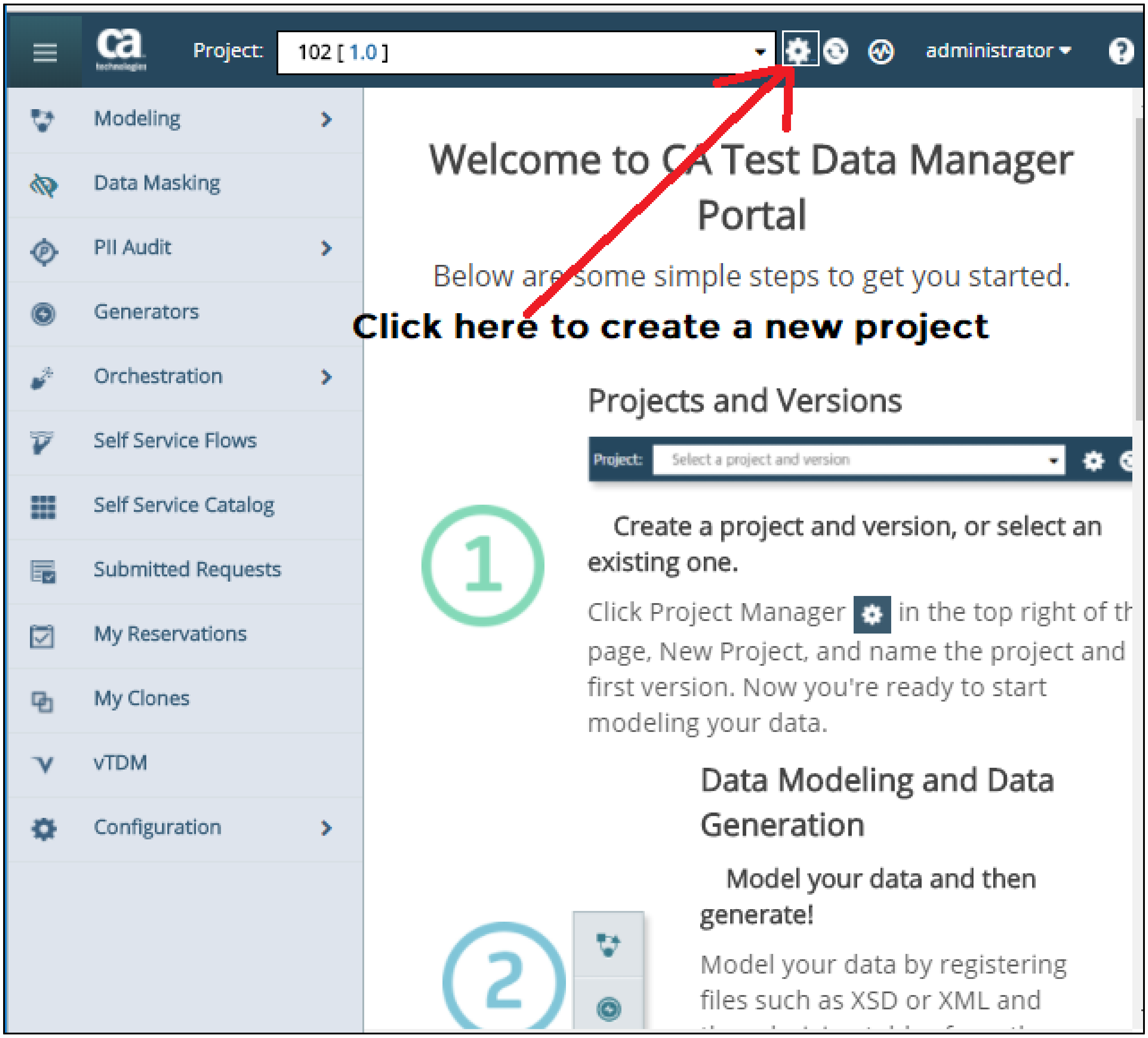
Login to portal first


Test Data Manager Portal

Username: administrator

Password: •••••••

marmite



Welcome to CA Test Data Manager Portal

Below are some simple steps to get you started.

Click here to create a new project

Projects and Versions

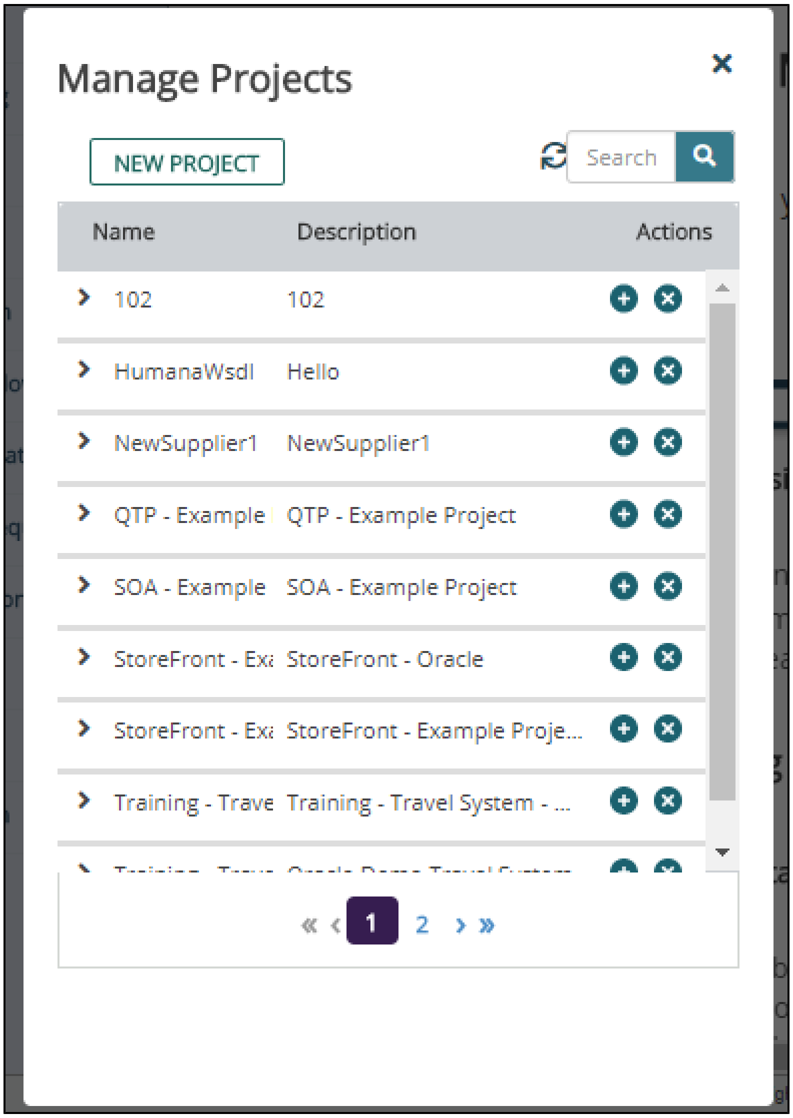
Create a project and version, or select an existing one.

Click Project Manager in the top right of th page, New Project, and name the project and first version. Now you're ready to start modeling your data.

Data Modeling and Data Generation

Model your data and then generate!

Model your data by registering files such as XSD or XML and



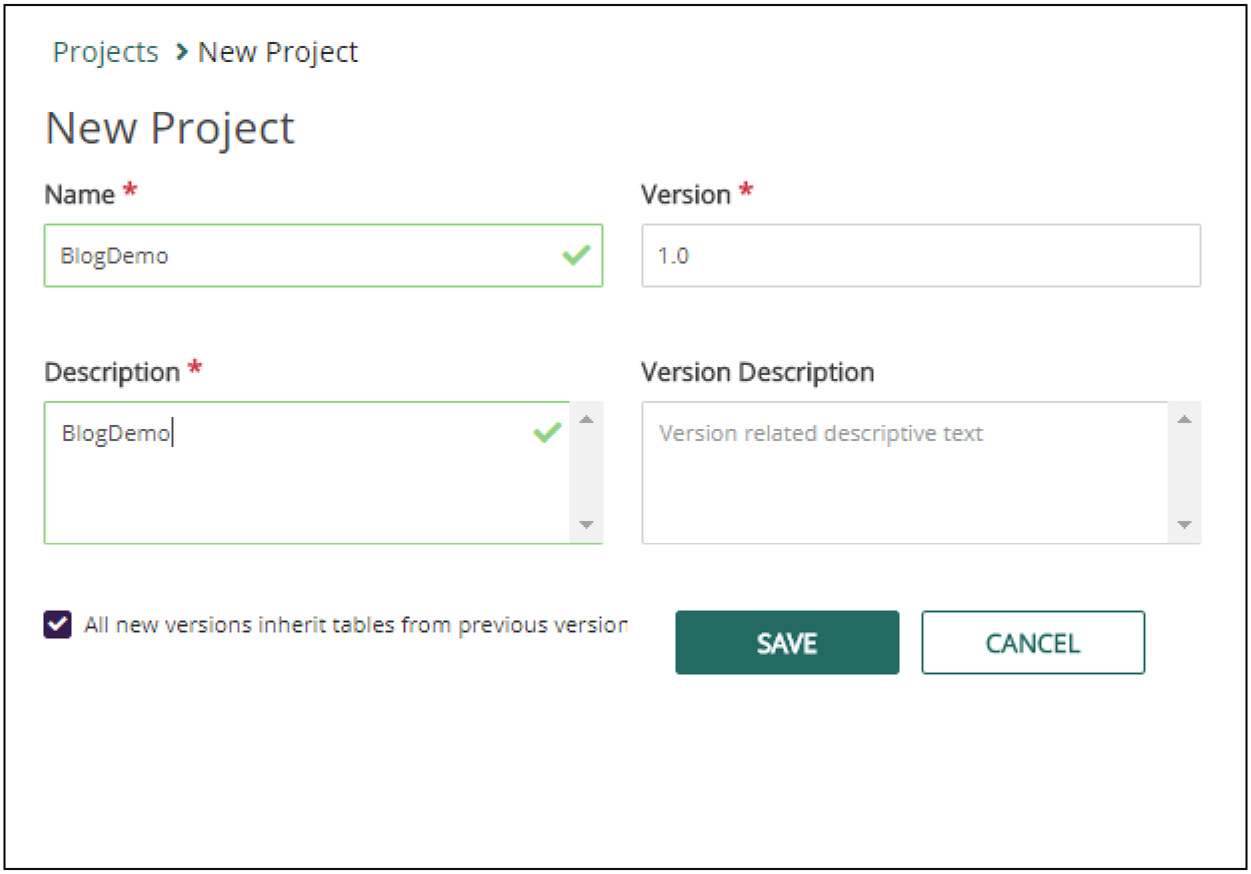
Manage Projects

NEW PROJECT

Search

Name	Description	Actions
102	102	⊕ ⊗
HumanaWsdl	Hello	⊕ ⊗
NewSupplier1	NewSupplier1	⊕ ⊗
QTP - Example	QTP - Example Project	⊕ ⊗
SOA - Example	SOA - Example Project	⊕ ⊗
StoreFront - Exa	StoreFront - Oracle	⊕ ⊗
StoreFront - Exa	StoreFront - Example Proje...	⊕ ⊗
Training - Trave	Training - Travel System - ...	⊕ ⊗

« ‹ 1 2 › »



Projects > New Project

New Project

Name *

BlogDemo ✓

Version *

1.0

Description *

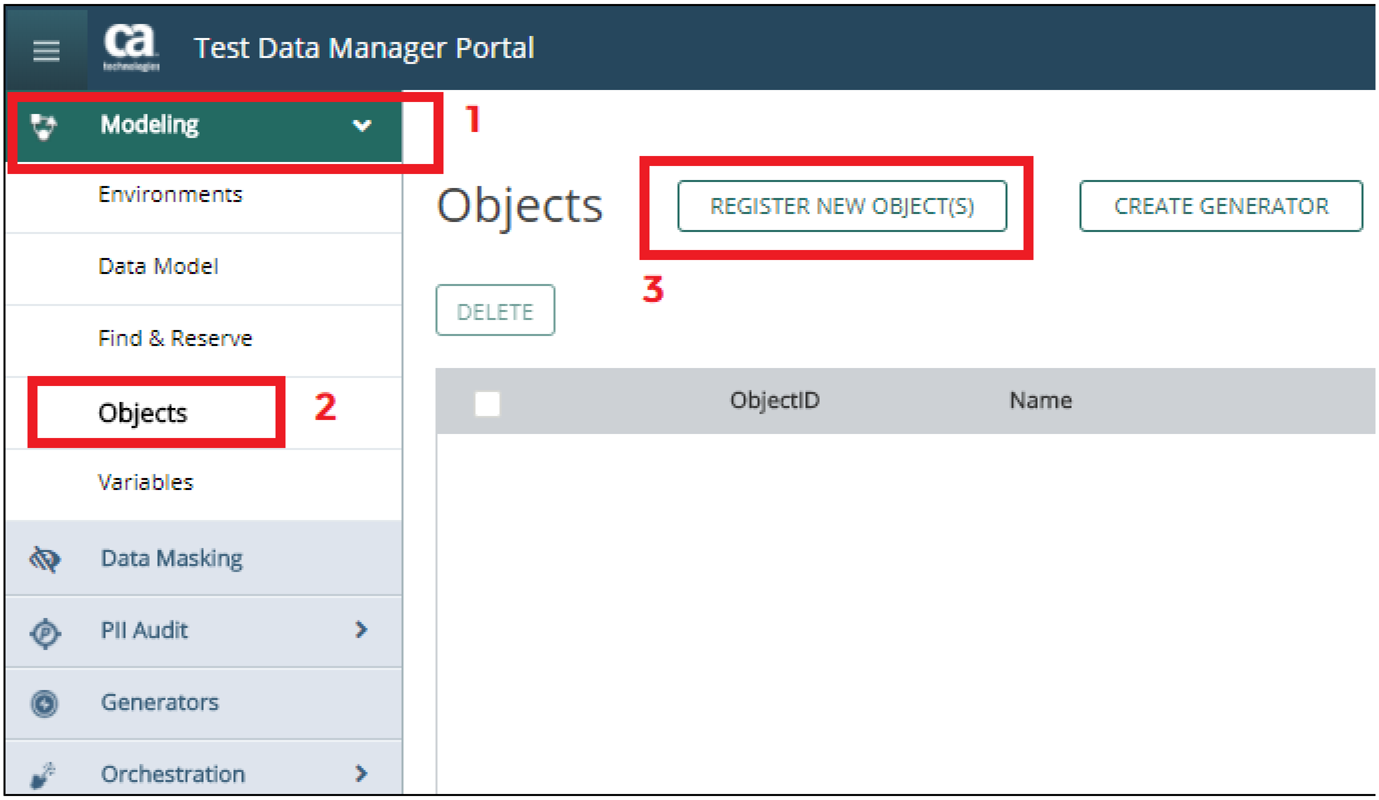
BlogDemo ✓

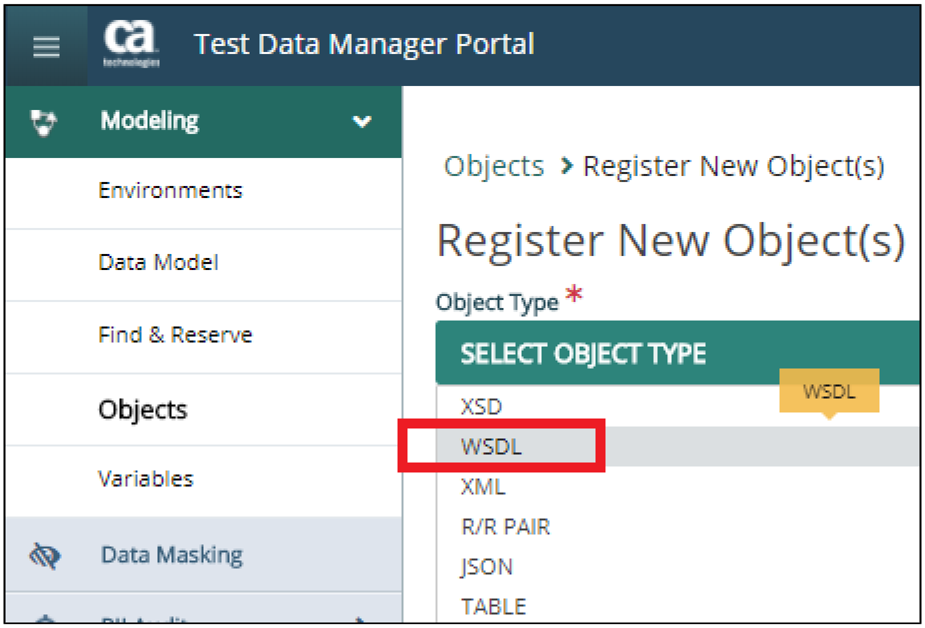
Version Description

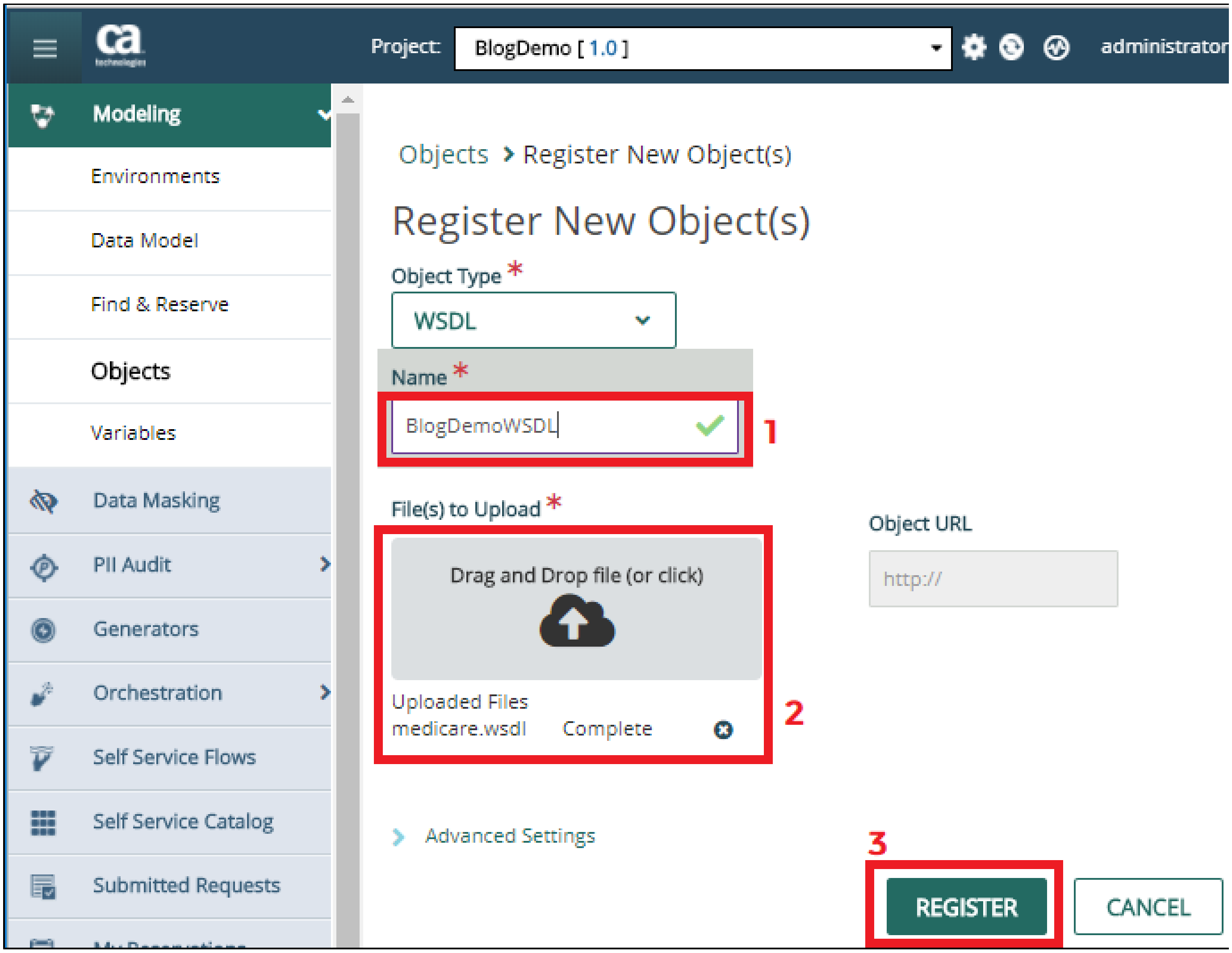
Version related descriptive text

☑ All new versions inherit tables from previous version

Switch the context to the newly created project from top right corner and then follow rest of the screens







Project: BlogDemo [1.0]

Objects > Register New Object(s)

Register New Object(s)

Object Type * WSDL

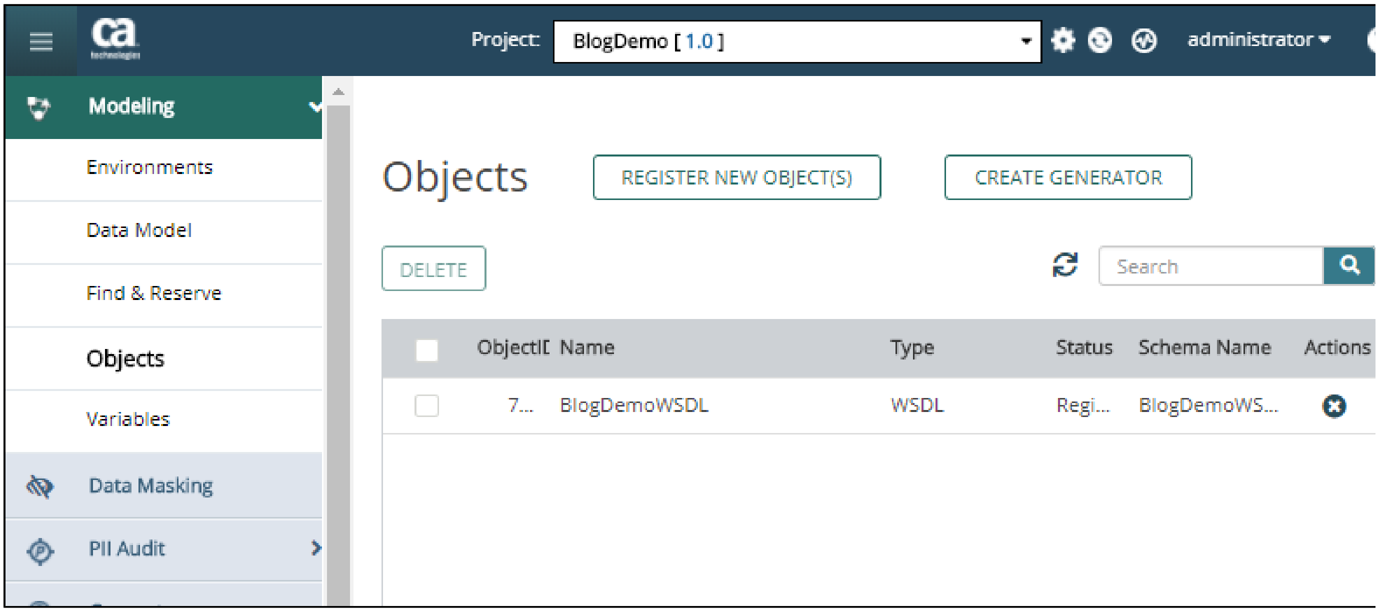
Name * BlogDemoWSDL

File(s) to Upload *

Uploaded Files
medicare.wsdl Complete

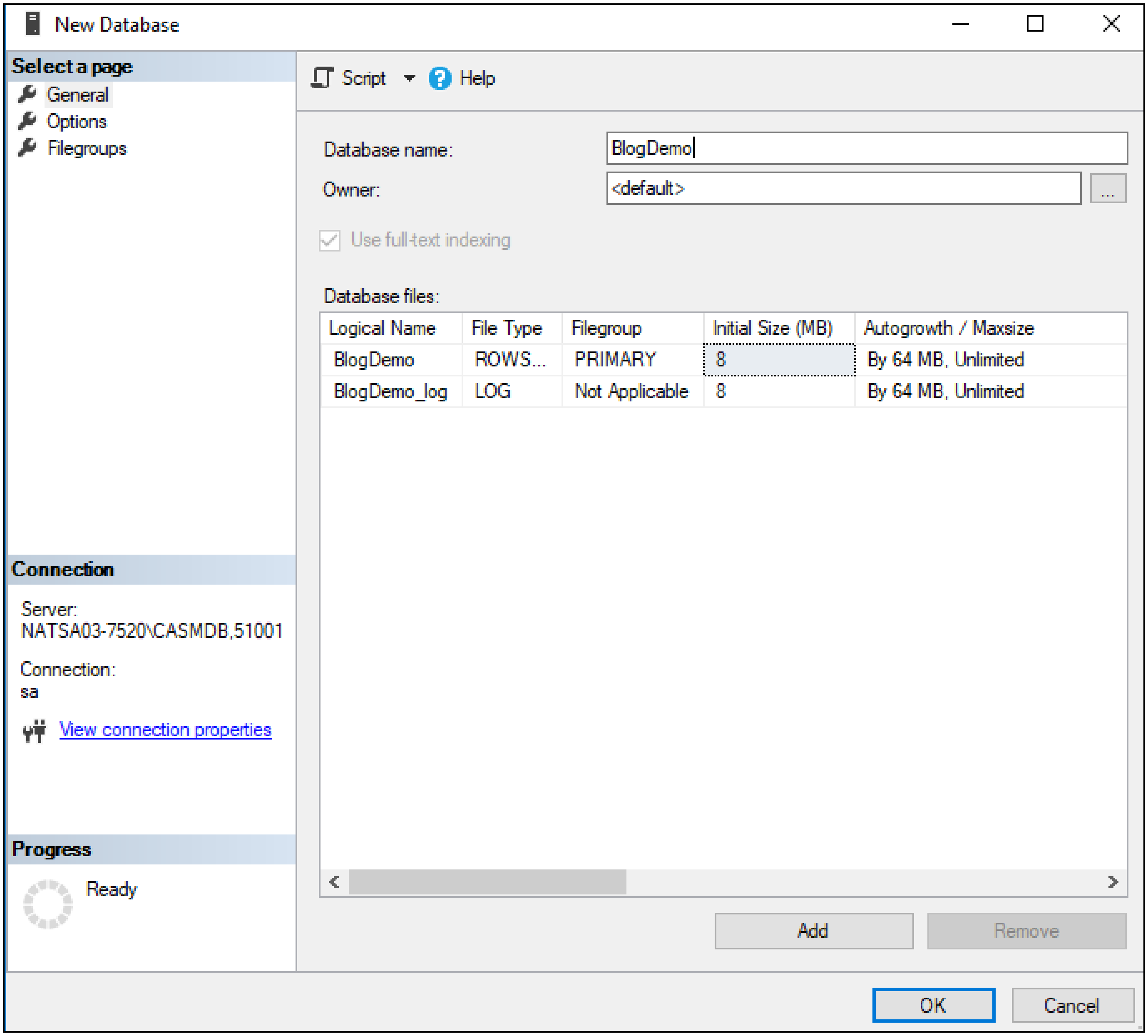
Object URL http://

Once registerd, the WSDL object would appear in the Objects lilst



□	ObjectI[	Name	Type	Status	Schema Name	Actions
□	7...	BlogDemoWSDL	WSDL	Regi...	BlogDemoWS...	✖

At this point, we need to create a Databse in SQL Server which can hold the TABLES that are derived from the WSDL definition. For the sake of demo, I have created a fresh Database in SQL Server with name as BlogDemo and this DB connection need to be defined in TDM.



Database name: BlogDemo

Owner: <default>

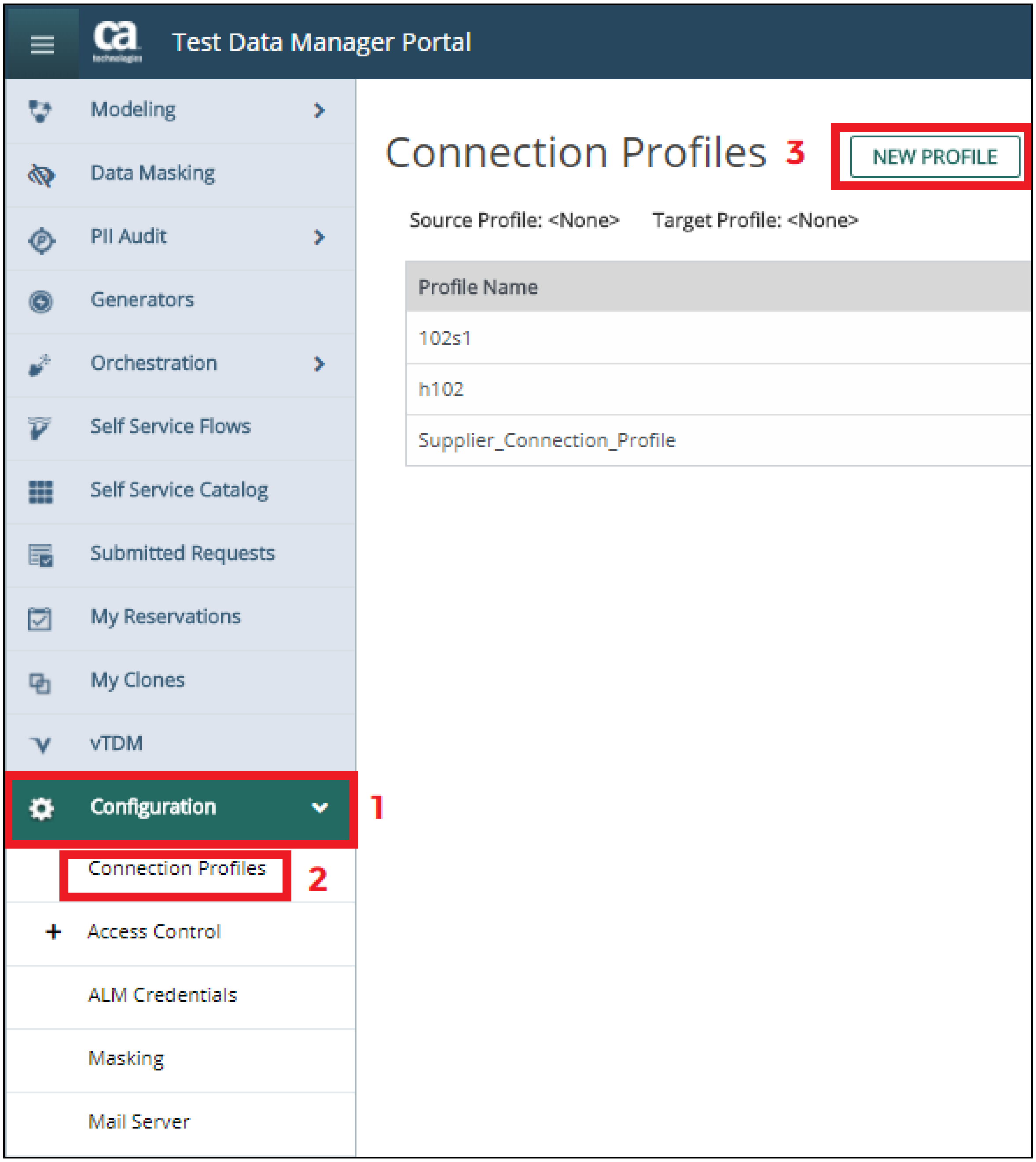
☑ Use full-text indexing

Database files:

Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize
BlogDemo	ROWS...	PRIMARY	8	By 64 MB, Unlimited
BlogDemo_log	LOG	Not Applicable	8	By 64 MB, Unlimited

Server:
NATSA03-7520\CASMDB,51001

Connection:
sa

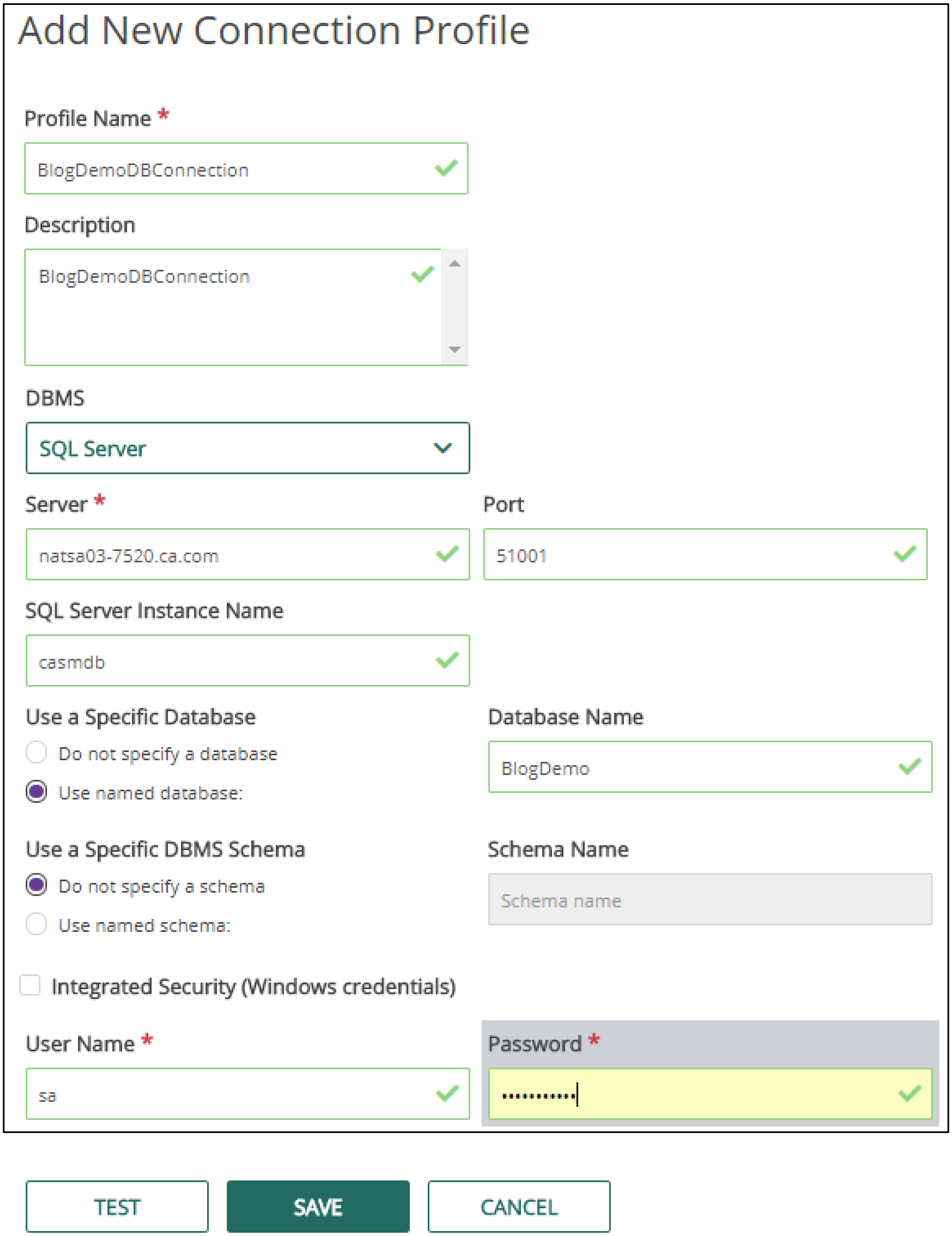


Connection Profiles

Source Profile: <None>   Target Profile: <None>

Profile Name
102s1
h102
Supplier_Connection_Profile

Define the DB Connection and then click TEST followed by SAVE. Once saved, the new connection profile should appear in the list of available connection profiles.



Add New Connection Profile

Profile Name *
BlogDemoDBConnection

Description
BlogDemoDBConnection

DBMS
SQL Server

Server *
natsa03-7520.ca.com

Port
51001

SQL Server Instance Name
casmdb

Use a Specific Database
○ Do not specify a database
● Use named database:

Database Name
BlogDemo

Use a Specific DBMS Schema
● Do not specify a schema
○ Use named schema:

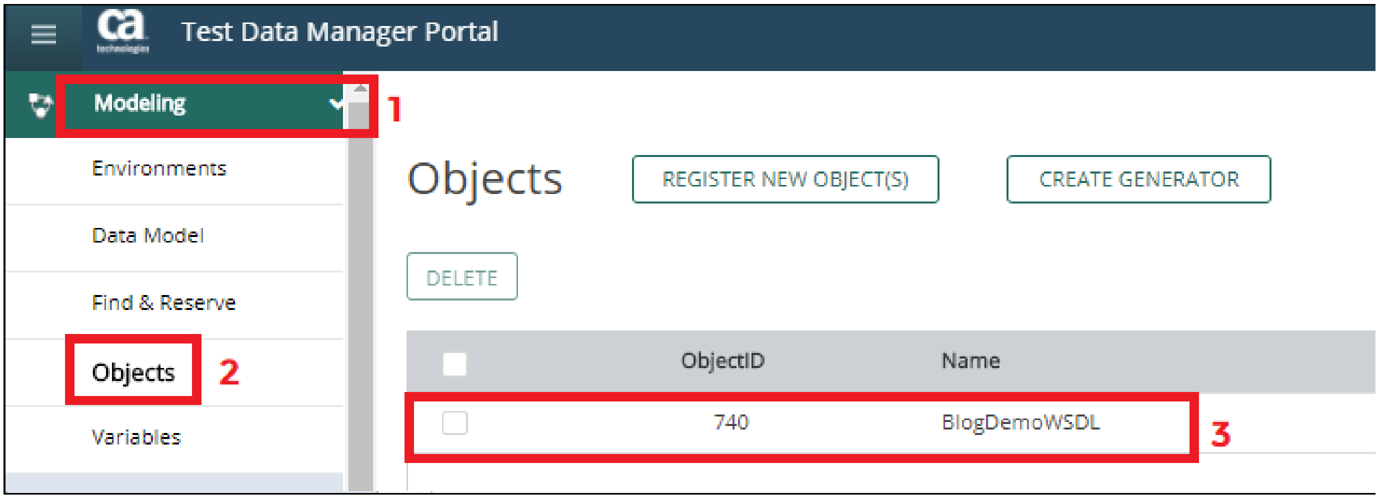
Schema Name
Schema name

□ Integrated Security (Windows credentials)

User Name *
sa

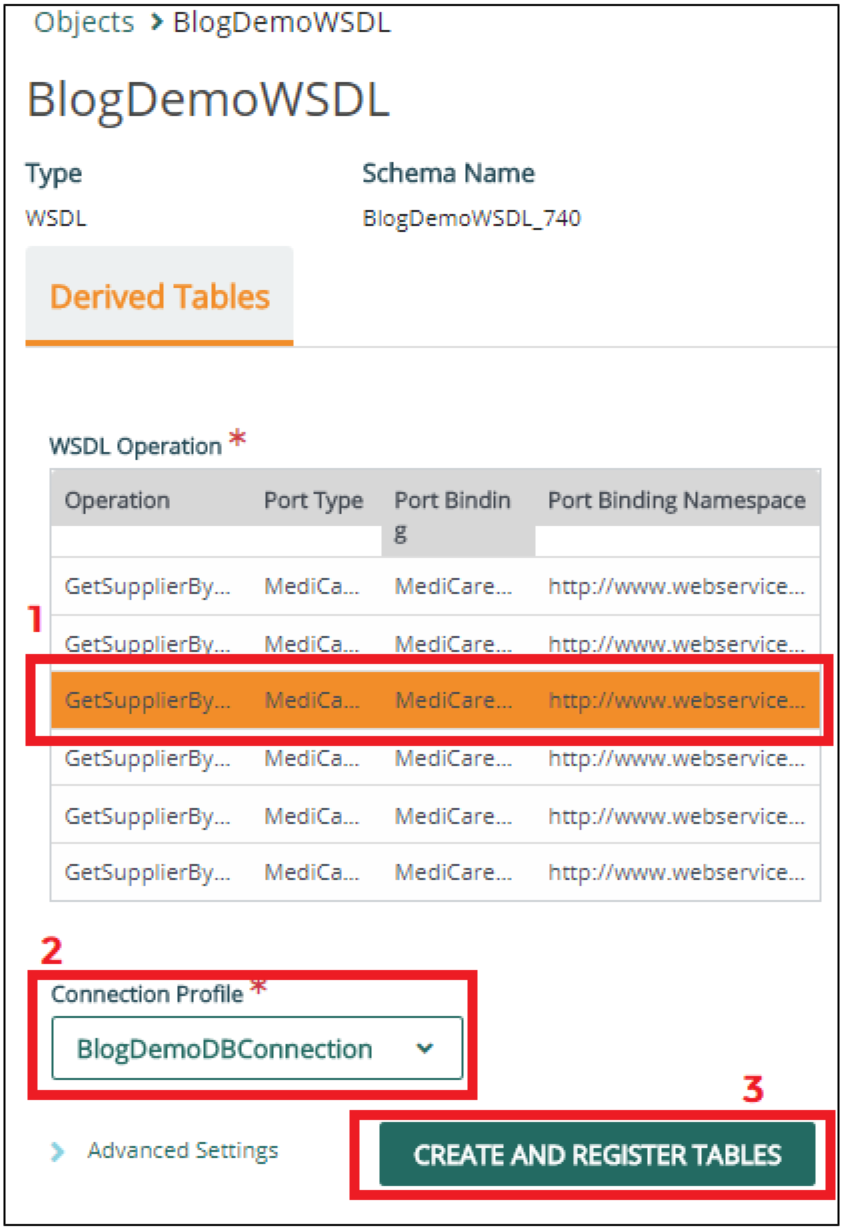
Password *
•••••••••••

The next step is to create and register derived objects, meaning, we identify WSDL operation and create tables in DB



□	ObjectID	Name
□	740	BlogDemoWSDL

Select one among the many WSDL operations, choose the DB connection and create tables. You would be able to see that, there are tables created in the DB.



Objects > BlogDemoWSDL

BlogDemoWSDL

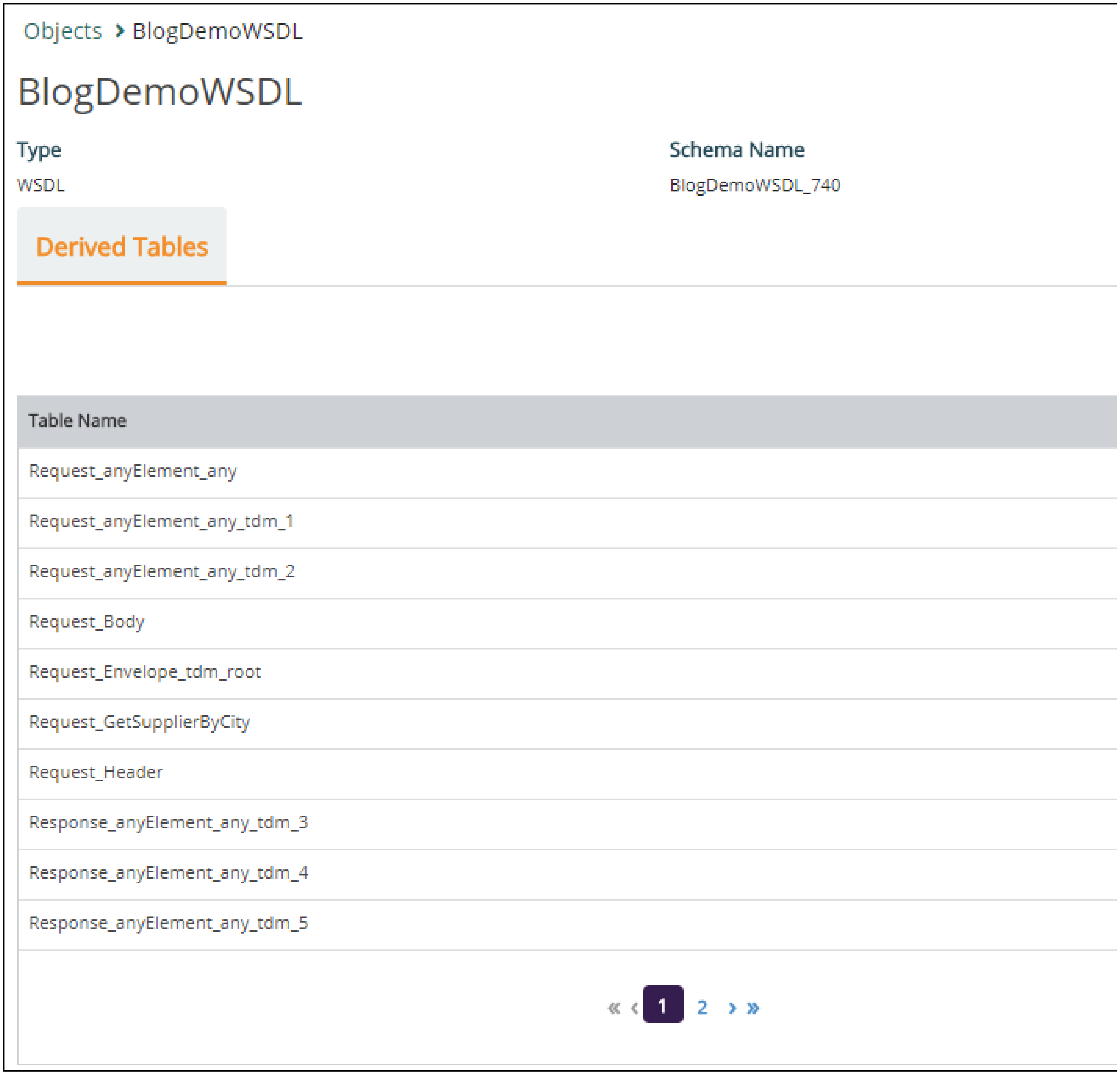
Type	Schema Name
WSDL	BlogDemoWSDL_740

Derived Tables

WSDL Operation *

Operation	Port Type	Port Bindin g	Port Binding Namespace
GetSupplierBy...	MediCa...	MediCare...	http://www.webservice...
GetSupplierBy...	MediCa...	MediCare...	http://www.webservice...
GetSupplierBy...	MediCa...	MediCare...	http://www.webservice...
GetSupplierBy...	MediCa...	MediCare...	http://www.webservice...
GetSupplierBy...	MediCa...	MediCare...	http://www.webservice...
GetSupplierBy...	MediCa...	MediCare...	http://www.webservice...

Connection Profile *: BlogDemoDBConnection



BlogDemoWSDL

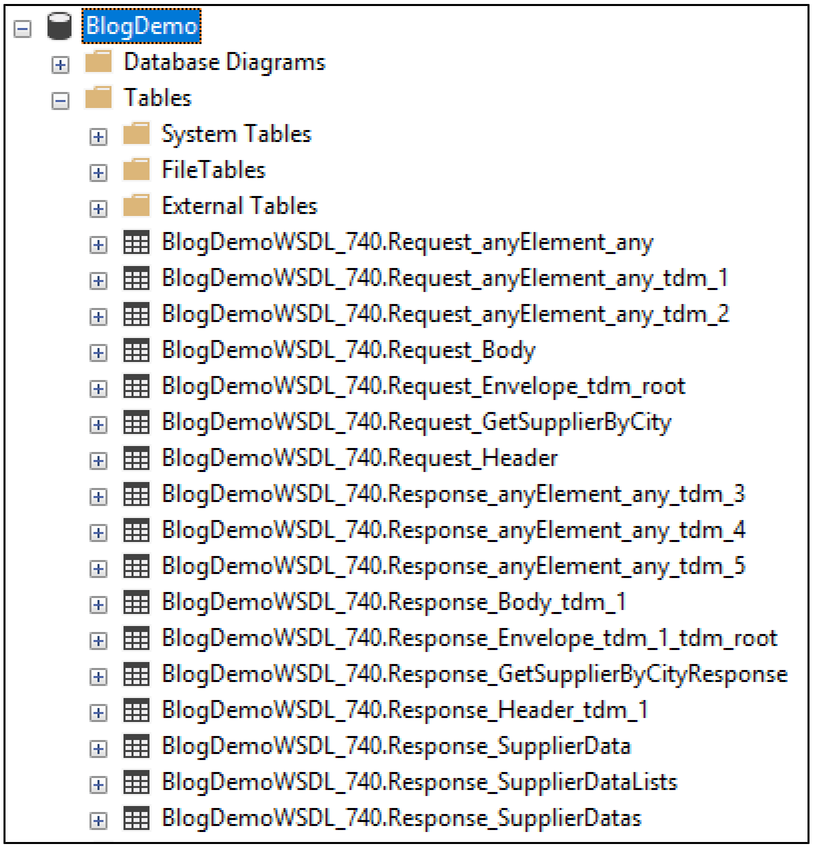
Type

WSDL

Schema Name

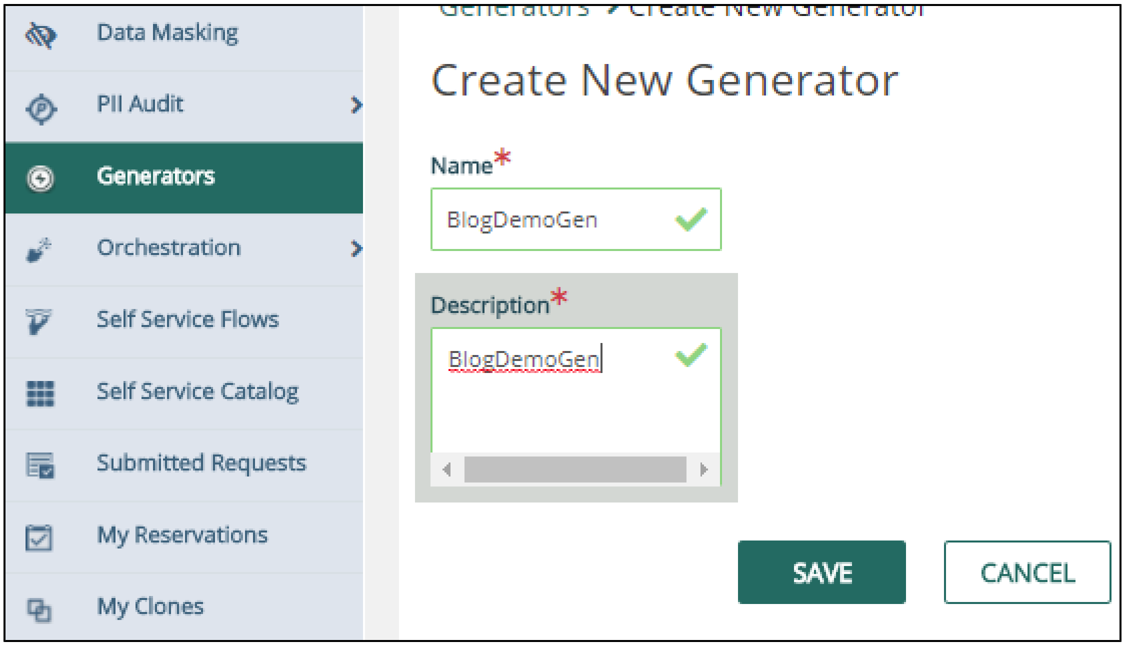
BlogDemoWSDL_740

Table Name
Request_anyElement_any
Request_anyElement_any_tdm_1
Request_anyElement_any_tdm_2
Request_Body
Request_Envelope_tdm_root
Request_GetSupplierByCity
Request_Header
Response_anyElement_any_tdm_3
Response_anyElement_any_tdm_4
Response_anyElement_any_tdm_5



```
⊟ BlogDemo
    ⊞ Database Diagrams
    ⊟ Tables
        ⊞ System Tables
        ⊞ FileTables
        ⊞ External Tables
        ⊞ BlogDemoWSDL_740.Request_anyElement_any
        ⊞ BlogDemoWSDL_740.Request_anyElement_any_tdm_1
        ⊞ BlogDemoWSDL_740.Request_anyElement_any_tdm_2
        ⊞ BlogDemoWSDL_740.Request_Body
        ⊞ BlogDemoWSDL_740.Request_Envelope_tdm_root
        ⊞ BlogDemoWSDL_740.Request_GetSupplierByCity
        ⊞ BlogDemoWSDL_740.Request_Header
        ⊞ BlogDemoWSDL_740.Response_anyElement_any_tdm_3
        ⊞ BlogDemoWSDL_740.Response_anyElement_any_tdm_4
        ⊞ BlogDemoWSDL_740.Response_anyElement_any_tdm_5
        ⊞ BlogDemoWSDL_740.Response_Body_tdm_1
        ⊞ BlogDemoWSDL_740.Response_Envelope_tdm_1_tdm_root
        ⊞ BlogDemoWSDL_740.Response_GetSupplierByCityResponse
        ⊞ BlogDemoWSDL_740.Response_Header_tdm_1
        ⊞ BlogDemoWSDL_740.Response_SupplierData
        ⊞ BlogDemoWSDL_740.Response_SupplierDataLists
        ⊞ BlogDemoWSDL_740.Response_SupplierDatas
```

Next step is to create a GENERATOR object which is necessary to import RR pairs from a file to the derived DB Tables.



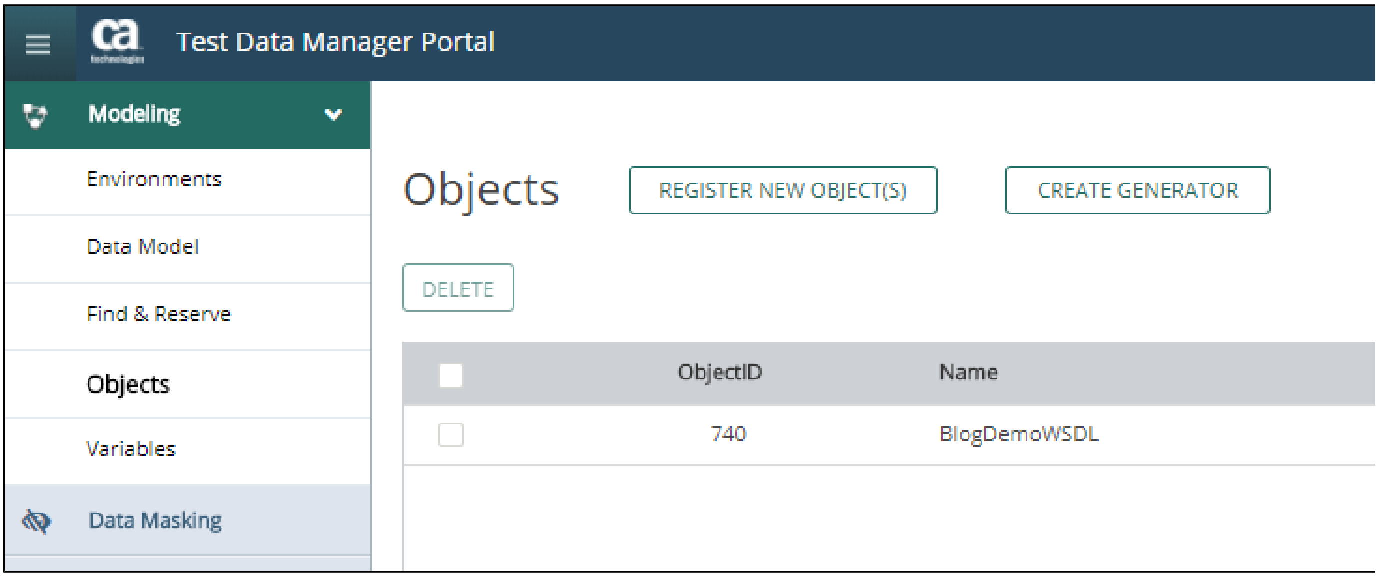
Create New Generator

Name*
BlogDemoGen

Description*
BlogDemoGen

Importing RR pairs from a file to the derived DB Tables

Go back to the objects list from Modeling and click on the BlogDemoWSDL object



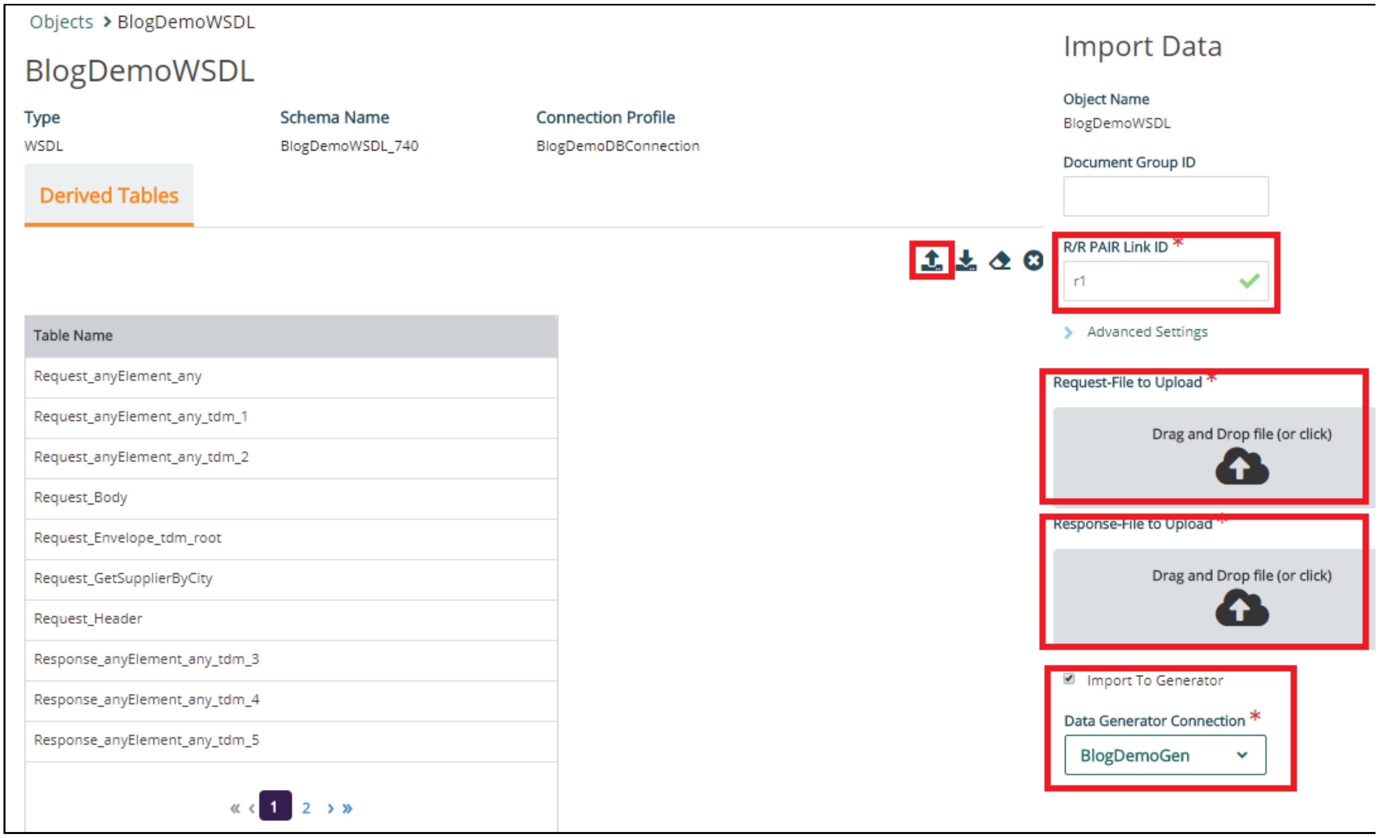
□	ObjectID	Name
□	740	BlogDemoWSDL

Click on the Import icon and fill in details. Drag and Drop request and response XML files. You would find a set of sample files here: https://docops.ca.com/ca-test-data-manager/4-7/en/files/506915874/506915877/1/1490769780334/medicare.wsdl

https://docops.ca.com/ca-test-data-manager/4-7/en/files/506915874/506915878/1/1490769780326/medicare_request.xml

https://docops.ca.com/ca-test-data-manager/4-7/en/files/506915874/506915879/1/1490769780317/medicare_response.xml

Once inmported, you would notice that the DB table is filled with records.



Type: WSDL

Schema Name: BlogDemoWSDL_740

Connection Profile: BlogDemoDBConnection

Table Name
Request_anyElement_any
Request_anyElement_any_tdm_1
Request_anyElement_any_tdm_2
Request_Body
Request_Envelope_tdm_root
Request_GetSupplierByCity
Request_Header
Response_anyElement_any_tdm_3
Response_anyElement_any_tdm_4
Response_anyElement_any_tdm_5

Object Name: BlogDemoWSDL

Document Group ID:

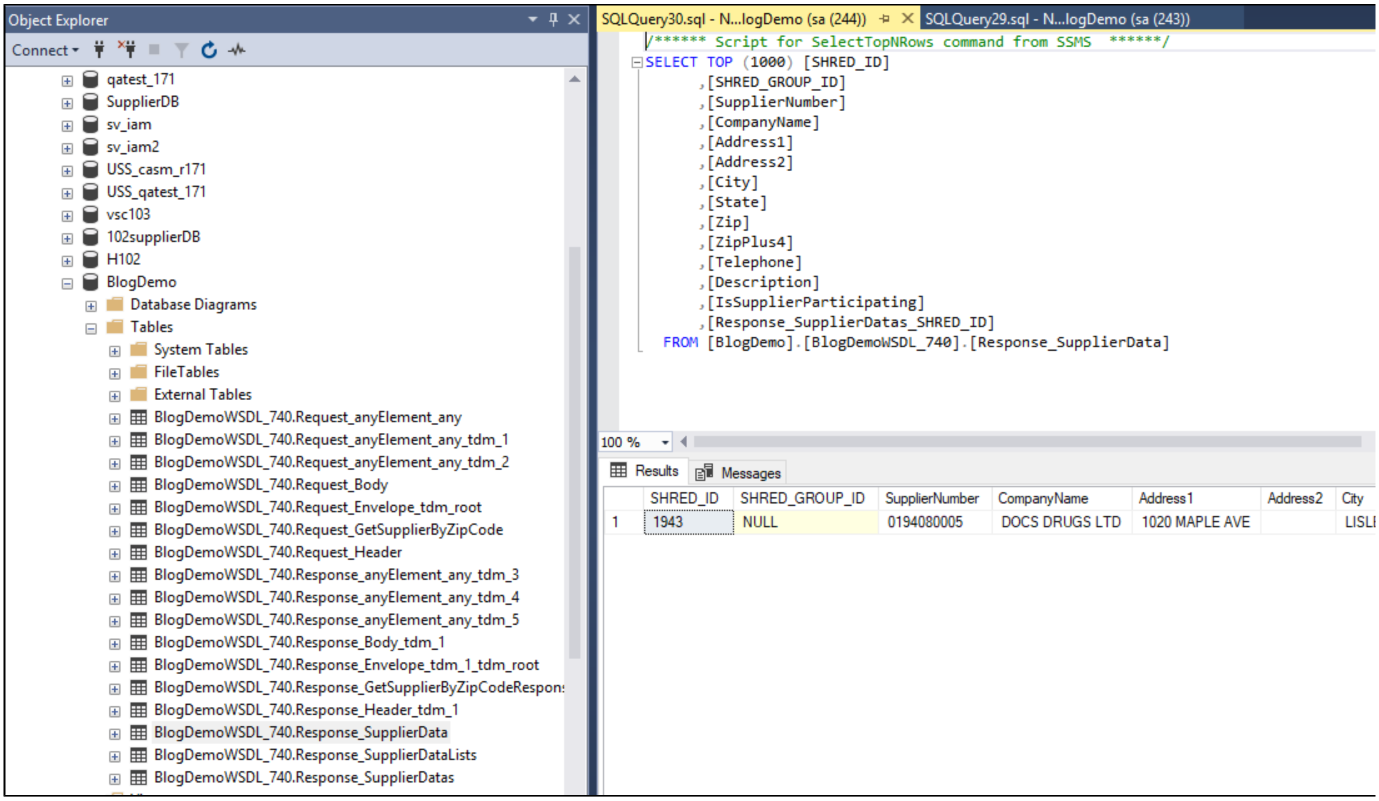
R/R PAIR Link ID *: r1

Request-File to Upload *

Response-File to Upload *

☑ Import To Generator

Data Generator Connection *: BlogDemoGen

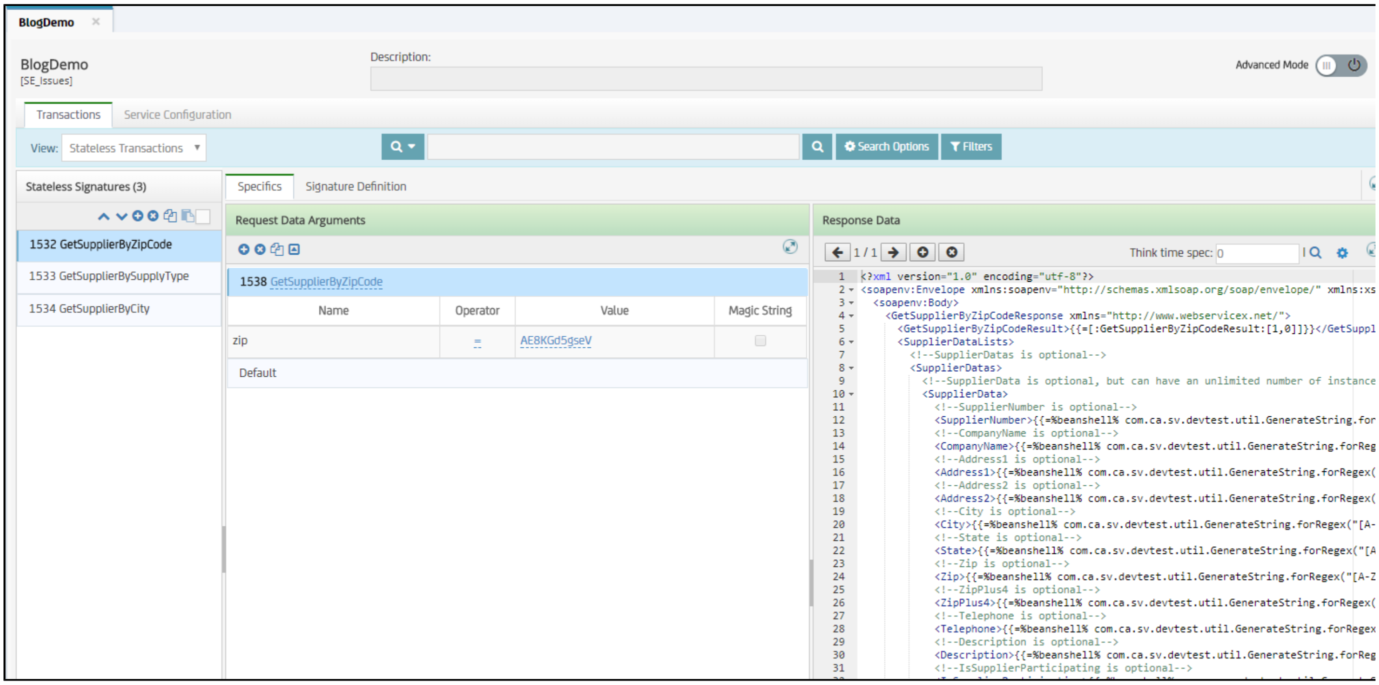

Object Explorer
Connect ▾
qatest_171
SupplierDB
sv_iam
sv_iam2
USS_casm_r171
USS_qatest_171
vsc103
102supplierDB
H102
BlogDemo
Database Diagrams
Tables
System Tables
FileTables
External Tables
BlogDemoWSDL_740.Request_anyElement_any
BlogDemoWSDL_740.Request_anyElement_any_tdm_1
BlogDemoWSDL_740.Request_anyElement_any_tdm_2
BlogDemoWSDL_740.Request_Body
BlogDemoWSDL_740.Request_Envelope_tdm_root
BlogDemoWSDL_740.Request_GetSupplierByZipCode
BlogDemoWSDL_740.Request_Header
BlogDemoWSDL_740.Response_anyElement_any_tdm_3
BlogDemoWSDL_740.Response_anyElement_any_tdm_4
BlogDemoWSDL_740.Response_anyElement_any_tdm_5
BlogDemoWSDL_740.Response_Body_tdm_1
BlogDemoWSDL_740.Response_Envelope_tdm_1_tdm_root
BlogDemoWSDL_740.Response_GetSupplierByZipCodeRespon
BlogDemoWSDL_740.Response_Header_tdm_1
BlogDemoWSDL_740.Response_SupplierData
BlogDemoWSDL_740.Response_SupplierDataLists
BlogDemoWSDL_740.Response_SupplierDatas
SQLQuery30.sql - N...logDemo (sa (244))
SQLQuery29.sql - N...logDemo (sa (243))
100 %
Results
Messages

```
/****** Script for SelectTopNRows command from SSMS  ******/
SELECT TOP (1000) [SHRED_ID]
      ,[SHRED_GROUP_ID]
      ,[SupplierNumber]
      ,[CompanyName]
      ,[Address1]
      ,[Address2]
      ,[City]
      ,[State]
      ,[Zip]
      ,[ZipPlus4]
      ,[Telephone]
      ,[Description]
      ,[IsSupplierParticipating]
      ,[Response_SupplierDatas_SHRED_ID]
  FROM [BlogDemo].[BlogDemoWSDL_740].[Response_SupplierData]
```

	SHRED_ID	SHRED_GROUP_ID	SupplierNumber	CompanyName	Address1	Address2	City
1	1943	NULL	0194080005	DOCS DRUGS LTD	1020 MAPLE AVE		LISLE

The next step in the integration is to do things on Devtest side. Create a virtual service using WSDL file. This would create a default implementation for all the WSDL operations; getSupplierByZipCode,

GetSupplierBySupplyType, GetSupplierByCity



1532 GetSupplierByZipCode
1533 GetSupplierBySupplyType
1534 GetSupplierByCity

1538 GetSupplierByZipCode

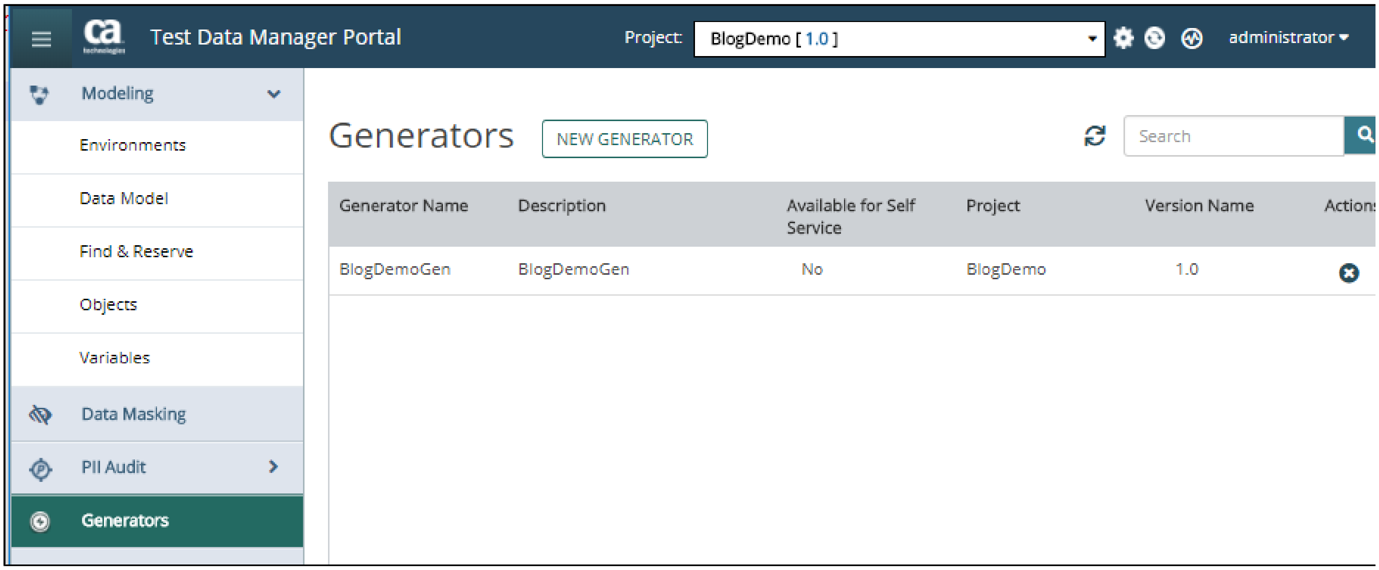
Name	Operator	Value	Magic String
zip	=	AE8KGd5gseV	□

Default

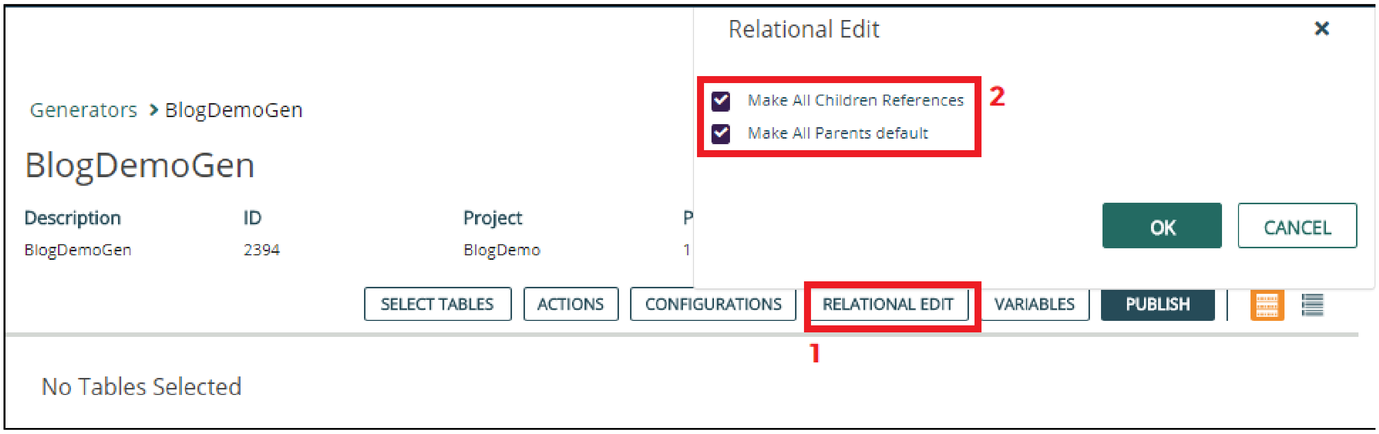
```
<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xs
  <soapenv:Body>
    <GetSupplierByZipCodeResponse xmlns="http://www.webservicex.net/">
      <GetSupplierByZipCodeResult>{{=[:GetSupplierByZipCodeResult:[1,0]]}}</GetSuppl
      <SupplierDataLists>
        <!--SupplierDatas is optional-->
        <SupplierDatas>
          <!--SupplierData is optional, but can have an unlimited number of instance
          <SupplierData>
            <!--SupplierNumber is optional-->
            <SupplierNumber>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.for
            <!--CompanyName is optional-->
            <CompanyName>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forReg
            <!--Address1 is optional-->
            <Address1>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forRegex(
            <!--Address2 is optional-->
            <Address2>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forRegex(
            <!--City is optional-->
            <City>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forRegex("[A-
            <!--State is optional-->
            <State>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forRegex("[A
            <!--Zip is optional-->
            <Zip>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forRegex("[A-Z
            <!--ZipPlus4 is optional-->
            <ZipPlus4>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forRegex(
            <!--Telephone is optional-->
            <Telephone>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forRegex
            <!--Description is optional-->
            <Description>{{=%beanshell% com.ca.sv.devtest.util.GenerateString.forReg
            <!--IsSupplierParticipating is optional-->
```

Next comes the CORE of TDM-Devtest Integraiton Piece. Using TDM, you could generate synthetic data and augment the Virtual Service (VS) with the synthetic data set. Lets see how this is done:

Open the Generator and clik on the generator object and then click on 'Relational Edit' and then select those 2 check boxes and click OK.



Generator Name	Description	Available for Self Service	Project	Version Name	Actions
BlogDemoGen	BlogDemoGen	No	BlogDemo	1.0	✖



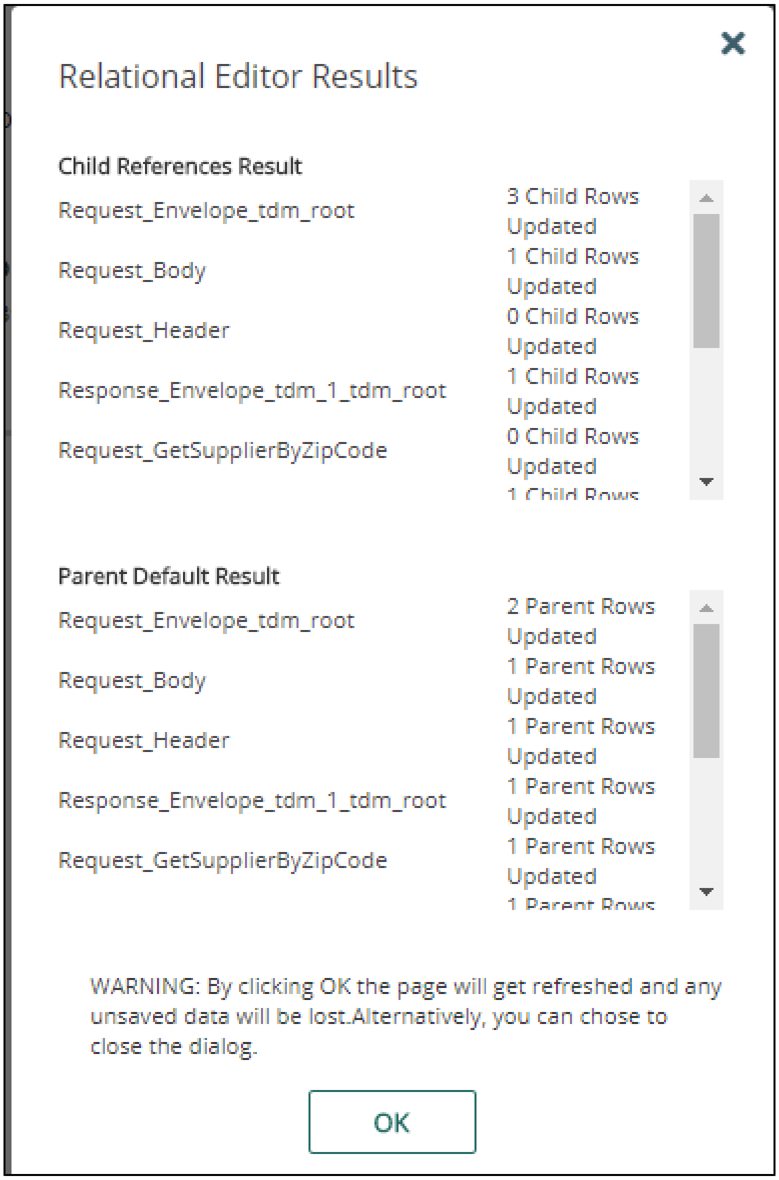
Description	ID	Project	P
BlogDemoGen	2394	BlogDemo	1

☑ Make All Children References

☑ Make All Parents default

No Tables Selected

Once you click OK, certain changes happen to the way the tables are maintained by TDM. You would be shwon the result of this operation:



Relational Editor Results

Child References Result

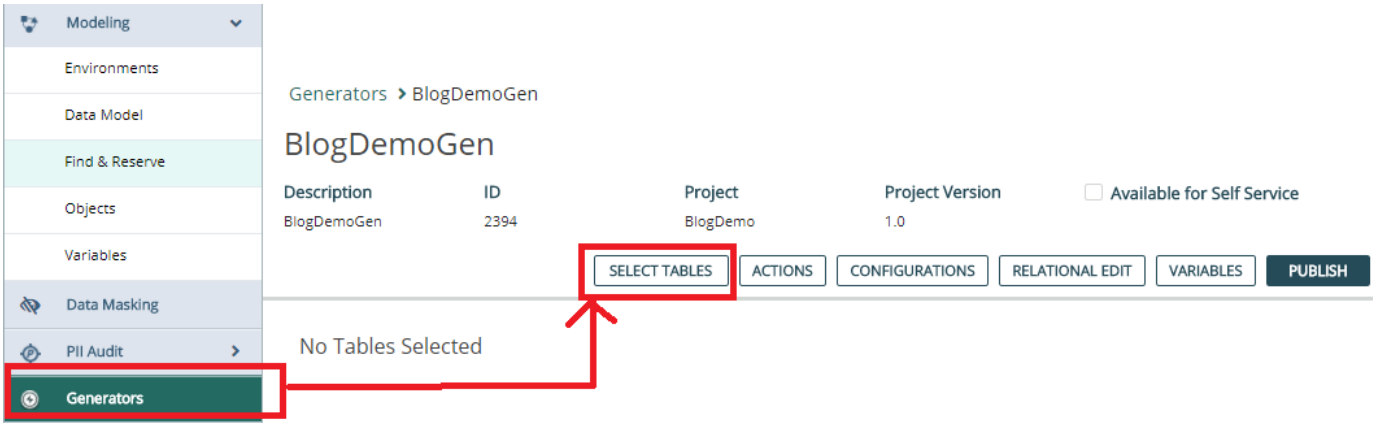
Request_Envelope_tdm_root	3 Child Rows Updated
Request_Body	1 Child Rows Updated
Request_Header	0 Child Rows Updated
Response_Envelope_tdm_1_tdm_root	1 Child Rows Updated
Request_GetSupplierByZipCode	0 Child Rows Updated
	1 Child Rows

Parent Default Result

Request_Envelope_tdm_root	2 Parent Rows Updated
Request_Body	1 Parent Rows Updated
Request_Header	1 Parent Rows Updated
Response_Envelope_tdm_1_tdm_root	1 Parent Rows Updated
Request_GetSupplierByZipCode	1 Parent Rows Updated
	1 Parent Rows

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

The next step is to alter DATA Generation rules. You do this as shown below. For this just click on the generator and then click on 'Select Tables' which will bring all the tables that were created earlier.

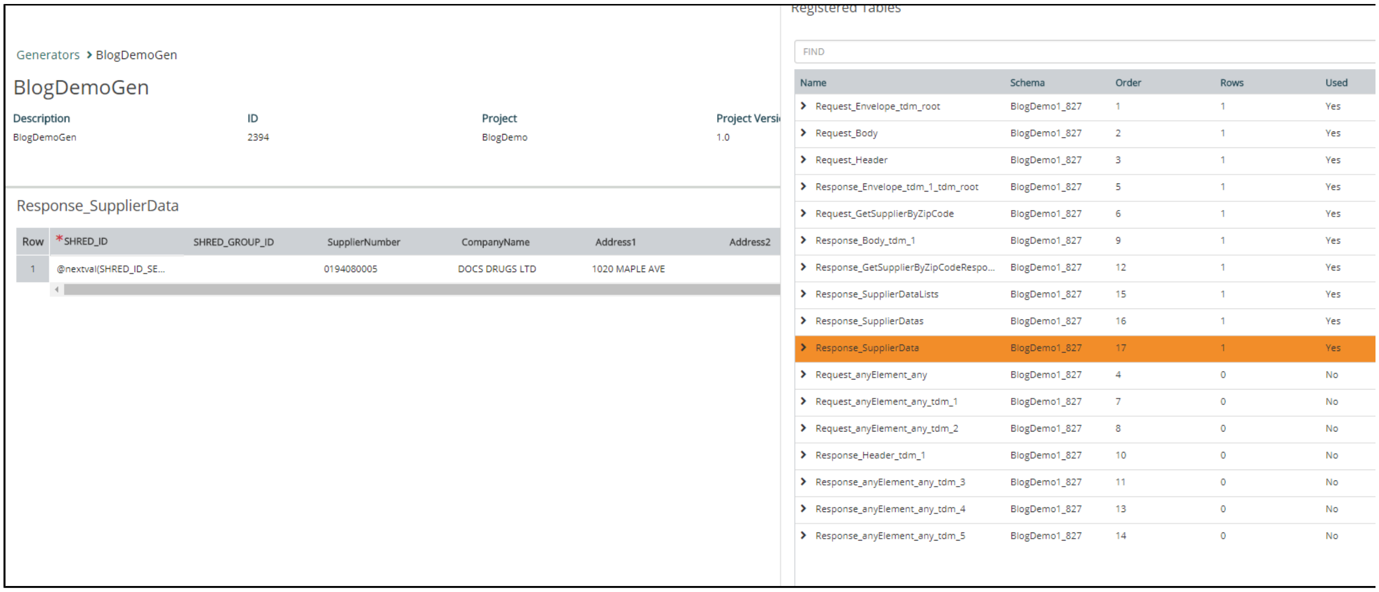


BlogDemoGen

Description	ID	Project	Project Version	□ Available for Self Service
BlogDemoGen	2394	BlogDemo	1.0	

No Tables Selected

Just click on the table 'Response_SupplierData' and then you would be able to edit the data generation rules.



Generators › BlogDemoGen

BlogDemoGen

Description	ID	Project	Project Versi
BlogDemoGen	2394	BlogDemo	1.0

Response_SupplierData

Row	*SHRED_ID	SHRED_GROUP_ID	SupplierNumber	CompanyName	Address1	Address2
1	@nextval(SHRED_ID_SE...		0194080005	DOCS DRUGS LTD	1020 MAPLE AVE	

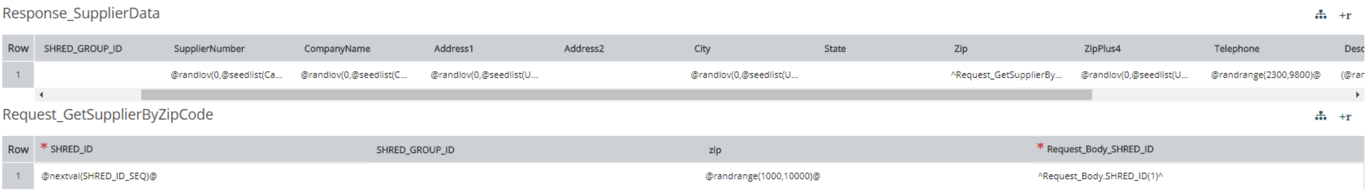
Registered Tables

FIND

Name	Schema	Order	Rows	Used
› Request_Envelope_tdm_root	BlogDemo1_827	1	1	Yes
› Request_Body	BlogDemo1_827	2	1	Yes
› Request_Header	BlogDemo1_827	3	1	Yes
› Response_Envelope_tdm_1_tdm_root	BlogDemo1_827	5	1	Yes
› Request_GetSupplierByZipCode	BlogDemo1_827	6	1	Yes
› Response_Body_tdm_1	BlogDemo1_827	9	1	Yes
› Response_GetSupplierByZipCodeRespo...	BlogDemo1_827	12	1	Yes
› Response_SupplierDataLists	BlogDemo1_827	15	1	Yes
› Response_SupplierDatas	BlogDemo1_827	16	1	Yes
› Response_SupplierData	BlogDemo1_827	17	1	Yes
› Request_anyElement_any	BlogDemo1_827	4	0	No
› Request_anyElement_any_tdm_1	BlogDemo1_827	7	0	No
› Request_anyElement_any_tdm_2	BlogDemo1_827	8	0	No
› Response_Header_tdm_1	BlogDemo1_827	10	0	No
› Response_anyElement_any_tdm_3	BlogDemo1_827	11	0	No
› Response_anyElement_any_tdm_4	BlogDemo1_827	13	0	No
› Response_anyElement_any_tdm_5	BlogDemo1_827	14	0	No

Use the following rules

- SHRED_ID: `@nextval(SHRED_ID_SEQ)@`
- SupplierNumber: `@randlov(0,@seedlist(Car Parts)@)@`
- CompanyName: `@randlov(0,@seedlist(Companies)@)@ LTD`
- Address1: `@randlov(0,@seedlist(US Address Line 1)@,1)@`
- City: `@randlov(0,@seedlist(US City State Zip County)@,1)@`
- Zip: `^Request_GetSupplierByZipCode.zip(1)^`
- ZipPlus4: `@randlov(0,@seedlist(US City State Zip County)@,2)@`
- Telephone: `@randrange(2300,9800)@`
- Description: `(@randrange(110,999)@)@randrange(110,999)@-@randrange(1110,1999)@`
- Response_SupplierDatas_SHRED_ID: `^Response_SupplierDatas.SHRED_ID(1)^`
- `MAKE SURE YOU ADD THE RULE FOR REQUEST_GETSUPPLIERBYZIPCODE table's zip field too as shown below`



Response_SupplierData

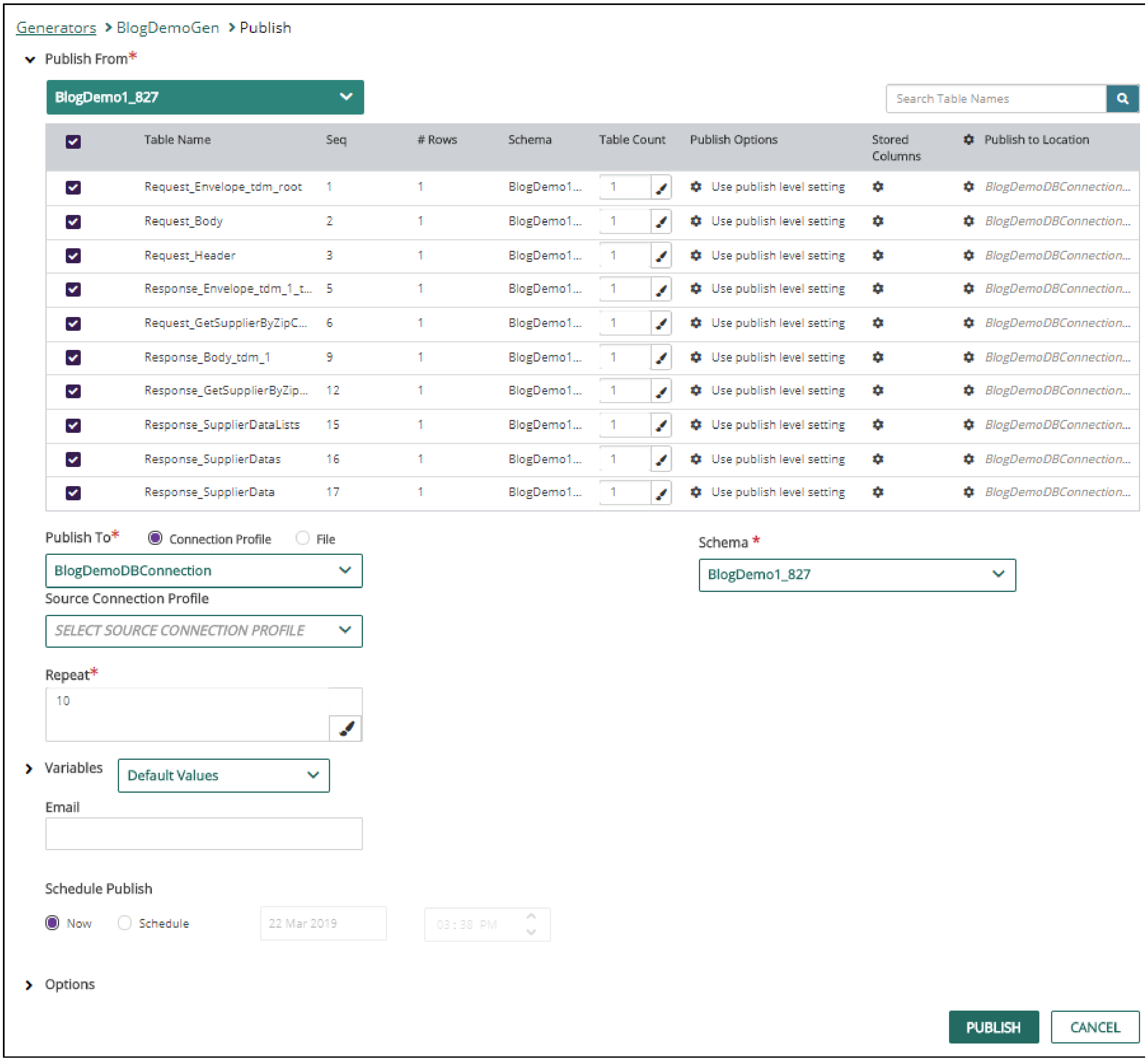
Row	SHRED_GROUP_ID	SupplierNumber	CompanyName	Address1	Address2	City	State	Zip	ZipPlus4	Telephone	Desc
1		@randlov(0,@seedlist(Ca...	@randlov(0,@seedlist(C...	@randlov(0,@seedlist(U...		@randlov(0,@seedlist(U...		^Request_GetSupplierBy...	@randlov(0,@seedlist(U...	@randrange(2300,9800)@	(@rar

Request_GetSupplierByZipCode

Row	* SHRED_ID	SHRED_GROUP_ID	zip	* Request_Body_SHRED_ID
1	@nextval(SHRED_ID_SEQ)@		@randrange(1000,10000)@	^Request_Body.SHRED_ID(1)^

Synthetic Data Generation Step

Click Publish button at the top which will bring up a page as shown below and click Publish



Generators > BlogDemoGen > Publish

Publish From*

BlogDemo1_827

Search Table Names

☑	Table Name	Seq	# Rows	Schema	Table Count	Publish Options	Stored Columns	Publish to Location
☑	Request_Envelope_tdm_root	1	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Request_Body	2	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Request_Header	3	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Response_Envelope_tdm_1_t...	5	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Request_GetSupplierByZipC...	6	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Response_Body_tdm_1	9	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Response_GetSupplierByZip...	12	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Response_SupplierDataLists	15	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Response_SupplierDatas	16	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...
☑	Response_SupplierData	17	1	BlogDemo1...	1	Use publish level setting		BlogDemoDBConnection...

Publish To* ● Connection Profile ○ File

BlogDemoDBConnection

Schema *

BlogDemo1_827

Source Connection Profile

SELECT SOURCE CONNECTION PROFILE

Repeat*

10

Variables: Default Values

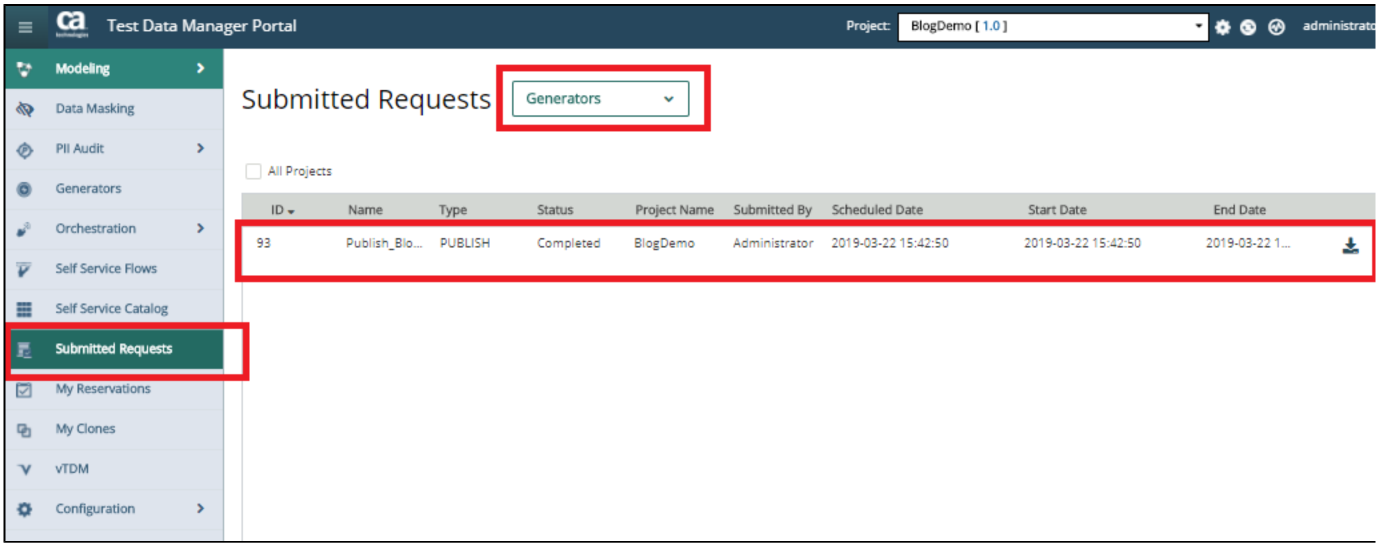
Email

Schedule Publish

● Now ○ Schedule 22 Mar 2019 03 : 38 PM

Options

Once you click PUBLISH, a job is submitted and its status can be monitored as shown below



Project: BlogDemo [1.0]

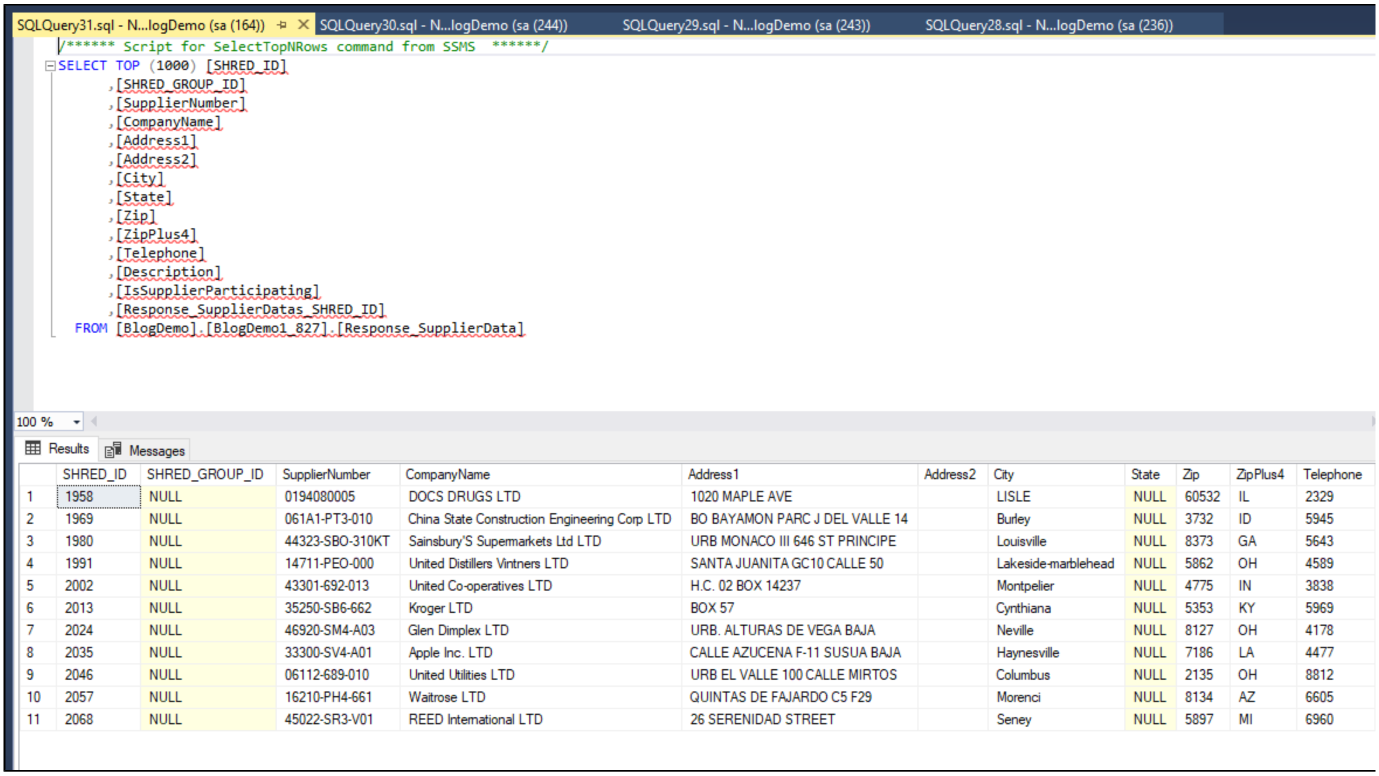
Submitted Requests

Generators

□ All Projects

ID	Name	Type	Status	Project Name	Submitted By	Scheduled Date	Start Date	End Date	
93	Publish_Blo...	PUBLISH	Completed	BlogDemo	Administrator	2019-03-22 15:42:50	2019-03-22 15:42:50	2019-03-22 1...	⤓

If you check the table, you would notice that 10 new records are inserted


SQLQuery31.sql - N...logDemo (sa (164))
SQLQuery30.sql - N...logDemo (sa (244))
SQLQuery29.sql - N...logDemo (sa (243))
SQLQuery28.sql - N...logDemo (sa (236))
100 %
Results
Messages

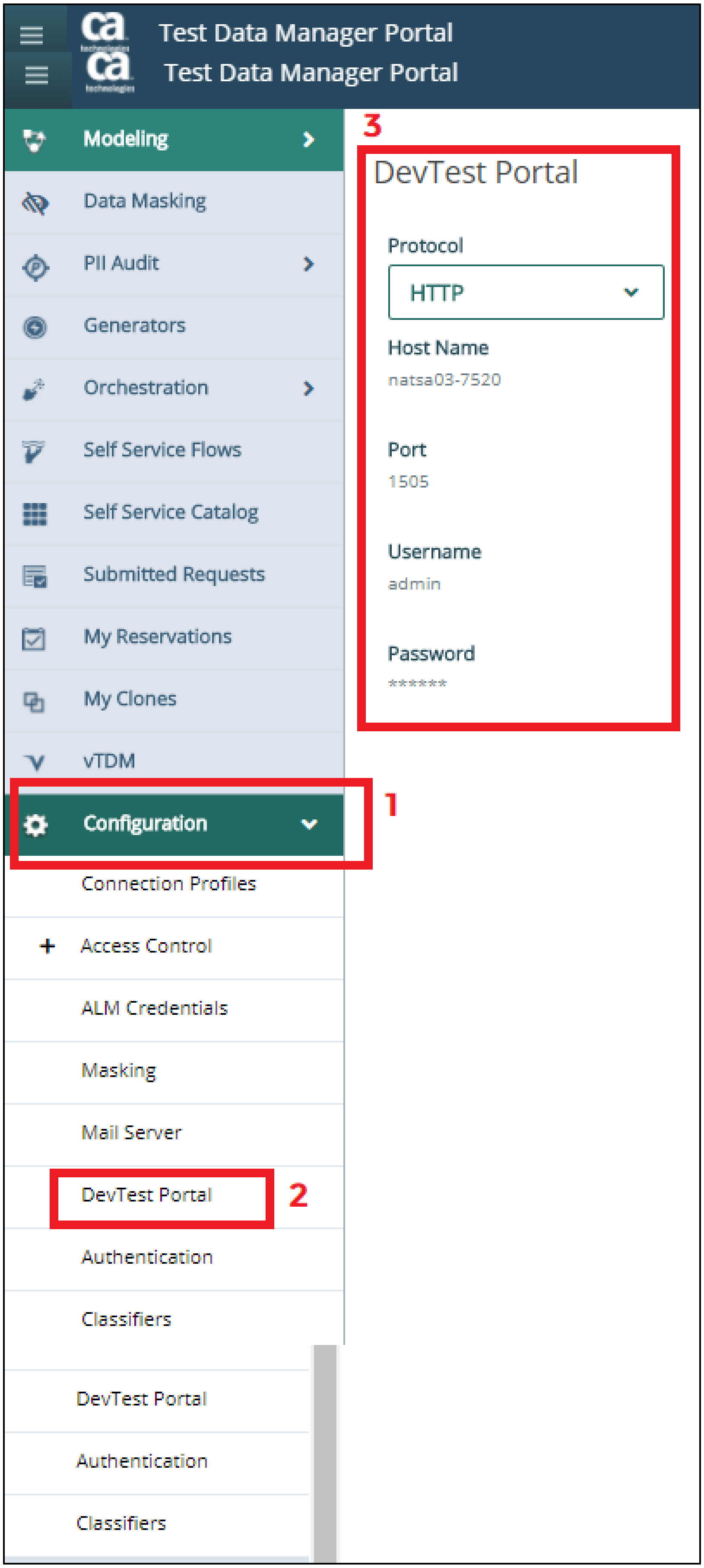
```
/****** Script for SelectTopNRows command from SSMS  ******/
SELECT TOP (1000) [SHRED_ID]
      ,[SHRED_GROUP_ID]
      ,[SupplierNumber]
      ,[CompanyName]
      ,[Address1]
      ,[Address2]
      ,[City]
      ,[State]
      ,[Zip]
      ,[ZipPlus4]
      ,[Telephone]
      ,[Description]
      ,[IsSupplierParticipating]
      ,[Response_SupplierDatas_SHRED_ID]
  FROM [BlogDemo].[BlogDemo1_827].[Response_SupplierData]
```

	SHRED_ID	SHRED_GROUP_ID	SupplierNumber	CompanyName	Address1	Address2	City	State	Zip	ZipPlus4	Telephone
1	1958	NULL	0194080005	DOCS DRUGS LTD	1020 MAPLE AVE		LISLE	NULL	60532	IL	2329
2	1969	NULL	061A1-PT3-010	China State Construction Engineering Corp LTD	BO BAYAMON PARC J DEL VALLE 14		Burley	NULL	3732	ID	5945
3	1980	NULL	44323-SBO-310KT	Sainsbury'S Supermarkets Ltd LTD	URB MONACO III 646 ST PRINCIPE		Louisville	NULL	8373	GA	5643
4	1991	NULL	14711-PEO-000	United Distillers Vintners LTD	SANTA JUANITA GC10 CALLE 50		Lakeside-marblehead	NULL	5862	OH	4589
5	2002	NULL	43301-692-013	United Co-operatives LTD	H.C. 02 BOX 14237		Montpelier	NULL	4775	IN	3838
6	2013	NULL	35250-SB6-662	Kroger LTD	BOX 57		Cynthiana	NULL	5353	KY	5969
7	2024	NULL	46920-SM4-A03	Glen Dimplex LTD	URB. ALTURAS DE VEGA BAJA		Neville	NULL	8127	OH	4178
8	2035	NULL	33300-SV4-A01	Apple Inc. LTD	CALLE AZUCENA F-11 SUSUA BAJA		Haynesville	NULL	7186	LA	4477
9	2046	NULL	06112-689-010	United Utilities LTD	URB EL VALLE 100 CALLE MIRTOS		Columbus	NULL	2135	OH	8812
10	2057	NULL	16210-PH4-661	Waitrose LTD	QUINTAS DE FAJARDO C5 F29		Morenci	NULL	8134	AZ	6605
11	2068	NULL	45022-SR3-V01	REED International LTD	26 SERENIDAD STREET		Seney	NULL	5897	MI	6960

Export SYNTHETIC data to running Virtual Service in DevTest

THis is the last step of the integration use case. In order to export synthetic data from TDM to Devtest, we need to set up a connection from TDM to Devtest. For this usecase, this integration is PURELY ONE-WAY. ie, from TDM to DEVTEST

First, configure Devtest connection details in TDM.



DevTest Portal

Protocol: HTTP

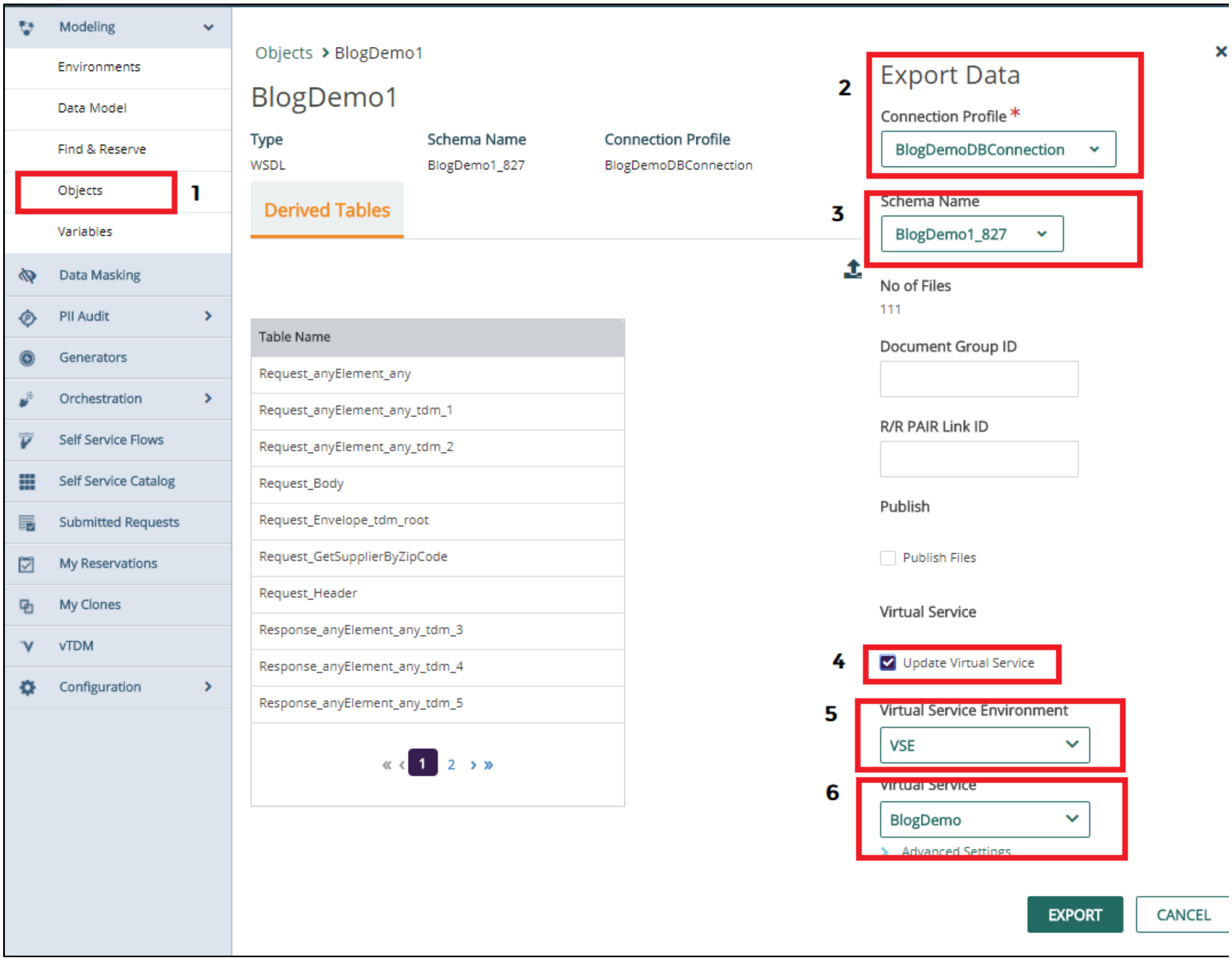
Host Name: natsa03-7520

Port: 1505

Username: admin

Password: ******

Next, export the synthetic data to running Virtual Service. MAke sure you choose the correct DB connection, schema and Virtual Service. Click Export



BlogDemo1

Type	Schema Name	Connection Profile
WSDL	BlogDemo1_827	BlogDemoDBConnection

Table Name
Request_anyElement_any
Request_anyElement_any_tdm_1
Request_anyElement_any_tdm_2
Request_Body
Request_Envelope_tdm_root
Request_GetSupplierByZipCode
Request_Header
Response_anyElement_any_tdm_3
Response_anyElement_any_tdm_4
Response_anyElement_any_tdm_5

« ‹ 1 2 › »

Export Data

Connection Profile* BlogDemoDBConnection

Schema Name BlogDemo1_827

No of Files 111

Document Group ID

R/R PAIR Link ID

Publish

□ Publish Files

Virtual Service

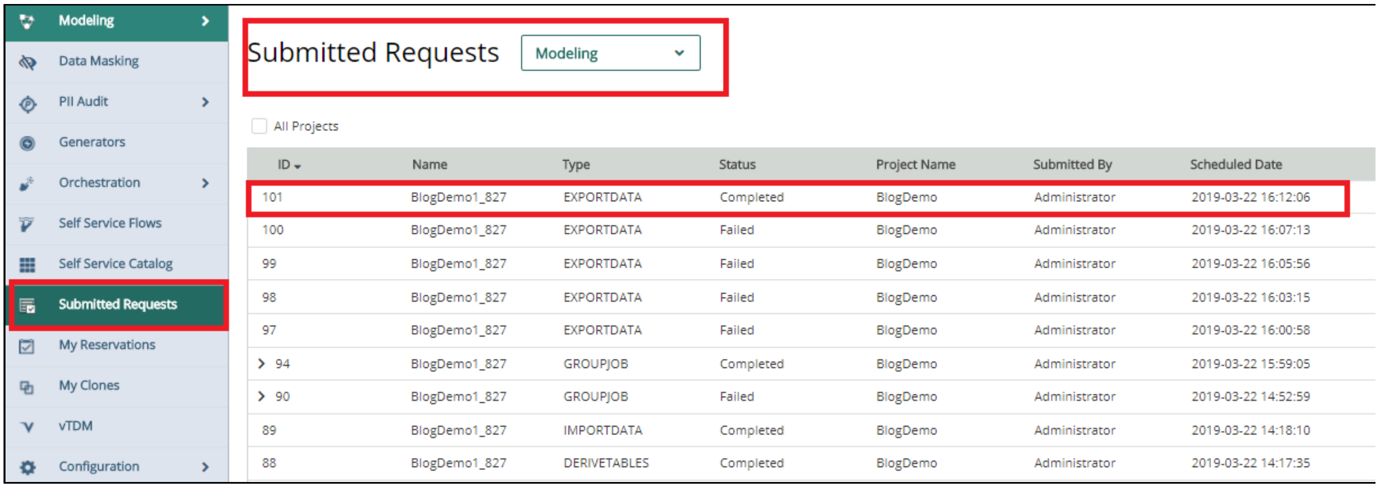
☑ Update Virtual Service

Virtual Service Environment VSE

Virtual Service BlogDemo

› Advanced Settings

To track the status of submitted export job:



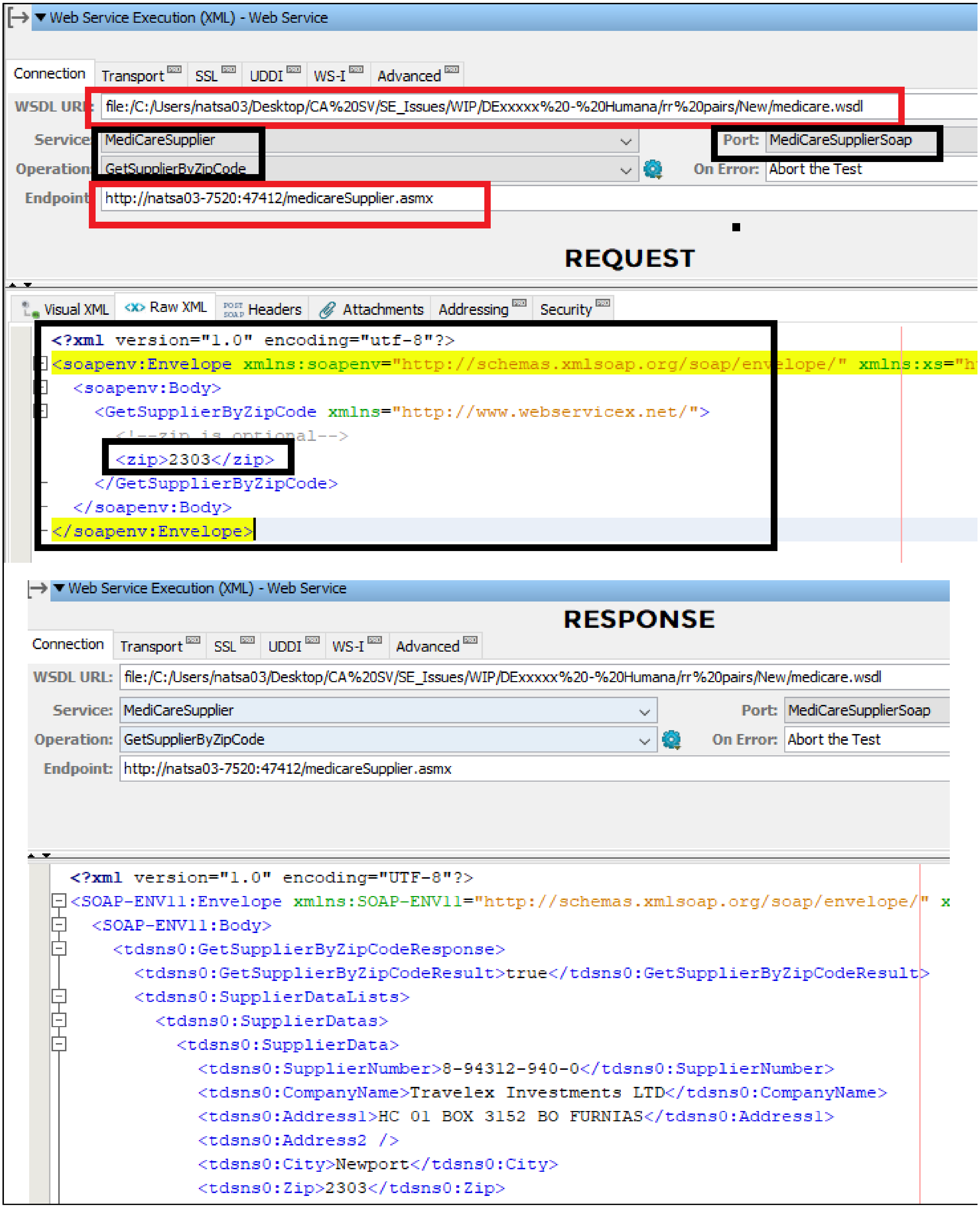
Submitted Requests Modeling

□ All Projects

ID	Name	Type	Status	Project Name	Submitted By	Scheduled Date
101	BlogDemo1_827	EXPORTDATA	Completed	BlogDemo	Administrator	2019-03-22 16:12:06
100	BlogDemo1_827	EXPORTDATA	Failed	BlogDemo	Administrator	2019-03-22 16:07:13
99	BlogDemo1_827	EXPORTDATA	Failed	BlogDemo	Administrator	2019-03-22 16:05:56
98	BlogDemo1_827	EXPORTDATA	Failed	BlogDemo	Administrator	2019-03-22 16:03:15
97	BlogDemo1_827	EXPORTDATA	Failed	BlogDemo	Administrator	2019-03-22 16:00:58
> 94	BlogDemo1_827	GROUPJOB	Completed	BlogDemo	Administrator	2019-03-22 15:59:05
> 90	BlogDemo1_827	GROUPJOB	Failed	BlogDemo	Administrator	2019-03-22 14:52:59
89	BlogDemo1_827	IMPORTDATA	Completed	BlogDemo	Administrator	2019-03-22 14:18:10
88	BlogDemo1_827	DERIVETABLES	Completed	BlogDemo	Administrator	2019-03-22 14:17:35

How to Test if the Virtual Service has been Augmented with Synthetic data from TDM ?

You cannot see the augmented transactions in the Virtual Service from Portal. However you could test the RUNNING virtual service using a simple test case in AppTest using Web Service -> Web Service Execution STEP. Try passing different zip code that you find in the table Response_SupplierData and you should get VALID SYNTHETIC RESPONSE.



WSDL URL: file:/C:/Users/natsa03/Desktop/CA%20SV/SE_Issues/WIP/DExxxxx%20-%20Humana/rr%20pairs/New/medicare.wsdl

Service: MediCareSupplier

Port: MediCareSupplierSoap

Operation: GetSupplierByZipCode

On Error: Abort the Test

Endpoint: http://natsa03-7520:47412/medicareSupplier.asmx

```
<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xs="h
  <soapenv:Body>
    <GetSupplierByZipCode xmlns="http://www.webservicex.net/">
      <!--zip is optional-->
      <zip>2303</zip>
    </GetSupplierByZipCode>
  </soapenv:Body>
</soapenv:Envelope>
```

WSDL URL: file:/C:/Users/natsa03/Desktop/CA%20SV/SE_Issues/WIP/DExxxxx%20-%20Humana/rr%20pairs/New/medicare.wsdl

Service: MediCareSupplier

Port: MediCareSupplierSoap

Operation: GetSupplierByZipCode

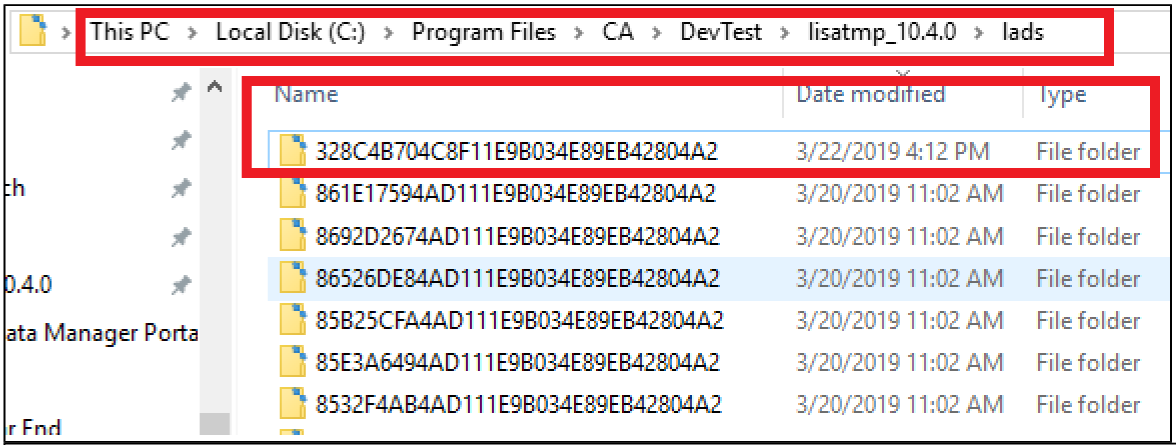
On Error: Abort the Test

Endpoint: http://natsa03-7520:47412/medicareSupplier.asmx

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV11:Envelope xmlns:SOAP-ENV11="http://schemas.xmlsoap.org/soap/envelope/" x
  <SOAP-ENV11:Body>
    <tdsns0:GetSupplierByZipCodeResponse>
      <tdsns0:GetSupplierByZipCodeResult>true</tdsns0:GetSupplierByZipCodeResult>
      <tdsns0:SupplierDataLists>
        <tdsns0:SupplierDatas>
          <tdsns0:SupplierData>
            <tdsns0:SupplierNumber>8-94312-940-0</tdsns0:SupplierNumber>
            <tdsns0:CompanyName>Travelex Investments LTD</tdsns0:CompanyName>
            <tdsns0:Address1>HC 01 BOX 3152 BO FURNIAS</tdsns0:Address1>
            <tdsns0:Address2 />
            <tdsns0:City>Newport</tdsns0:City>
            <tdsns0:Zip>2303</tdsns0:Zip>
```

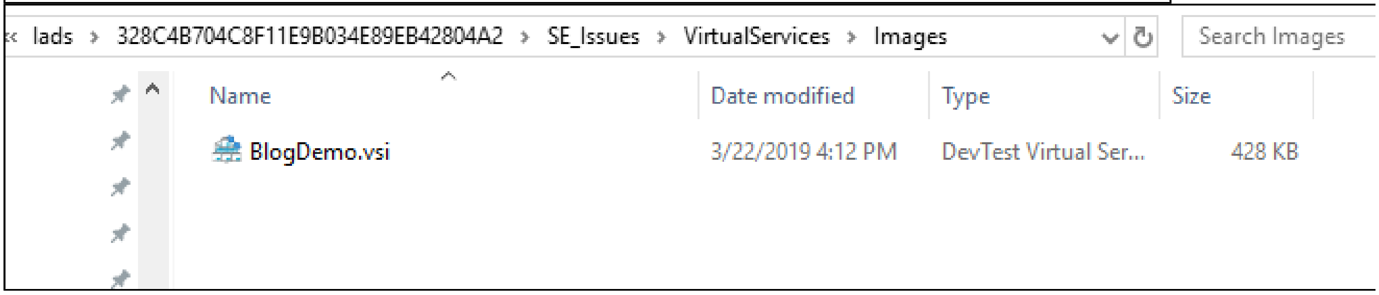
Where does DEVTEST store the exported SYNTHETIC DATA from TDM ?

Devtest stores this data in another .VSI file that is present in a different location. Just see the screenshot below



This PC › Local Disk (C:) › Program Files › CA › DevTest › lisatmp_10.4.0 › lads

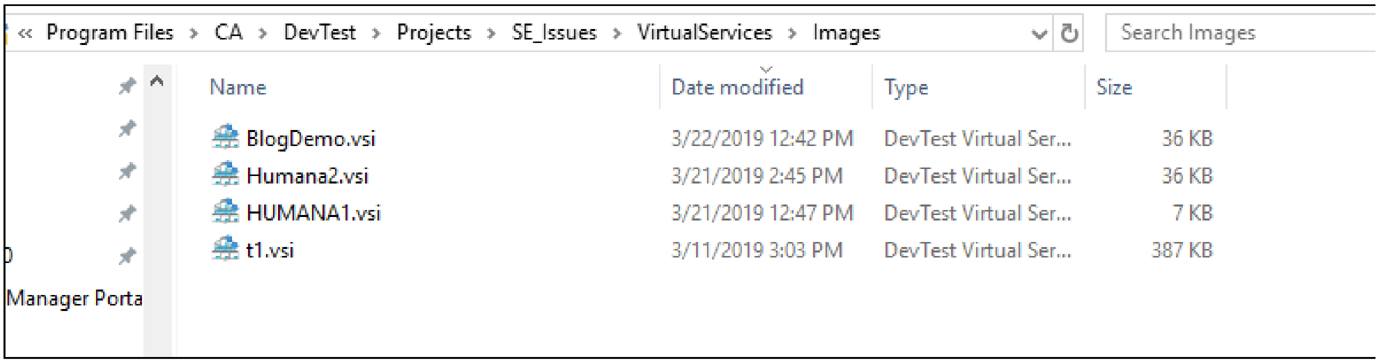
Name	Date modified	Type
328C4B704C8F11E9B034E89EB42804A2	3/22/2019 4:12 PM	File folder
861E17594AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
8692D2674AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
86526DE84AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
85B25CFA4AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
85E3A6494AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
8532F4AB4AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder



« lads › 328C4B704C8F11E9B034E89EB42804A2 › SE_Issues › VirtualServices › Images

Name	Date modified	Type	Size
BlogDemo.vsi	3/22/2019 4:12 PM	DevTest Virtual Ser...	428 KB

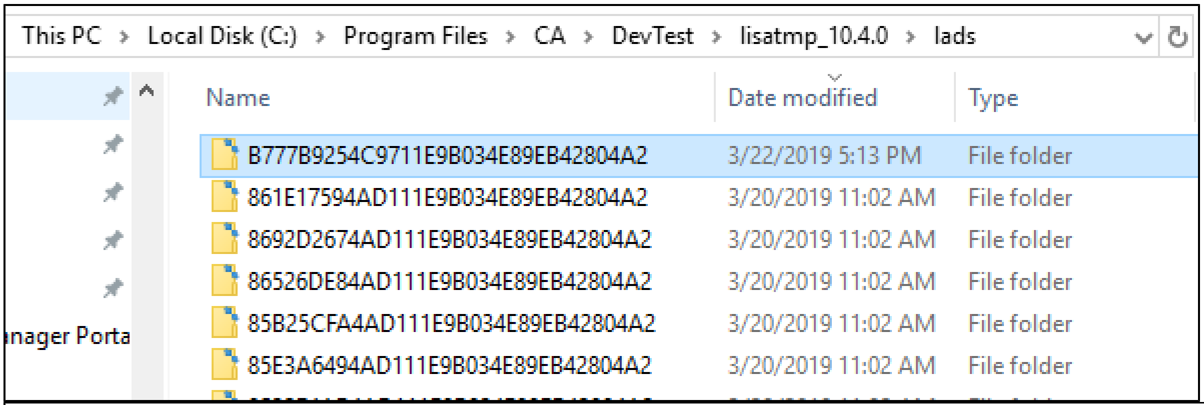
This is file big in size, much bigger than the original file.



« Program Files › CA › DevTest › Projects › SE_Issues › VirtualServices › Images

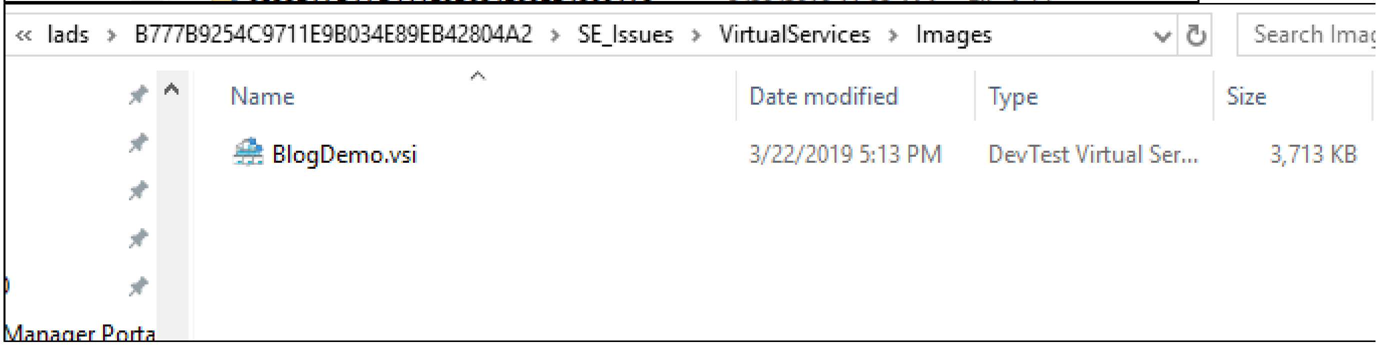
Name	Date modified	Type	Size
BlogDemo.vsi	3/22/2019 12:42 PM	DevTest Virtual Ser...	36 KB
Humana2.vsi	3/21/2019 2:45 PM	DevTest Virtual Ser...	36 KB
HUMANA1.vsi	3/21/2019 12:47 PM	DevTest Virtual Ser...	7 KB
t1.vsi	3/11/2019 3:03 PM	DevTest Virtual Ser...	387 KB

After exporting 100 Synthetic records, I generated another 1000 and exported. After export process, It is noticed that the lads folder has been updated and the VSI file size also increased. You could notice that the folder name has been changed. Most likely, the old folder has been dropped and a new one was created.



This PC › Local Disk (C:) › Program Files › CA › DevTest › lisatmp_10.4.0 › lads

Name	Date modified	Type
B777B9254C9711E9B034E89EB42804A2	3/22/2019 5:13 PM	File folder
861E17594AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
8692D2674AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
86526DE84AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
85B25CFA4AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder
85E3A6494AD111E9B034E89EB42804A2	3/20/2019 11:02 AM	File folder



« lads › B777B9254C9711E9B034E89EB42804A2 › SE_Issues › VirtualServices › Images

Name	Date modified	Type	Size
BlogDemo.vsi	3/22/2019 5:13 PM	DevTest Virtual Ser...	3,713 KB