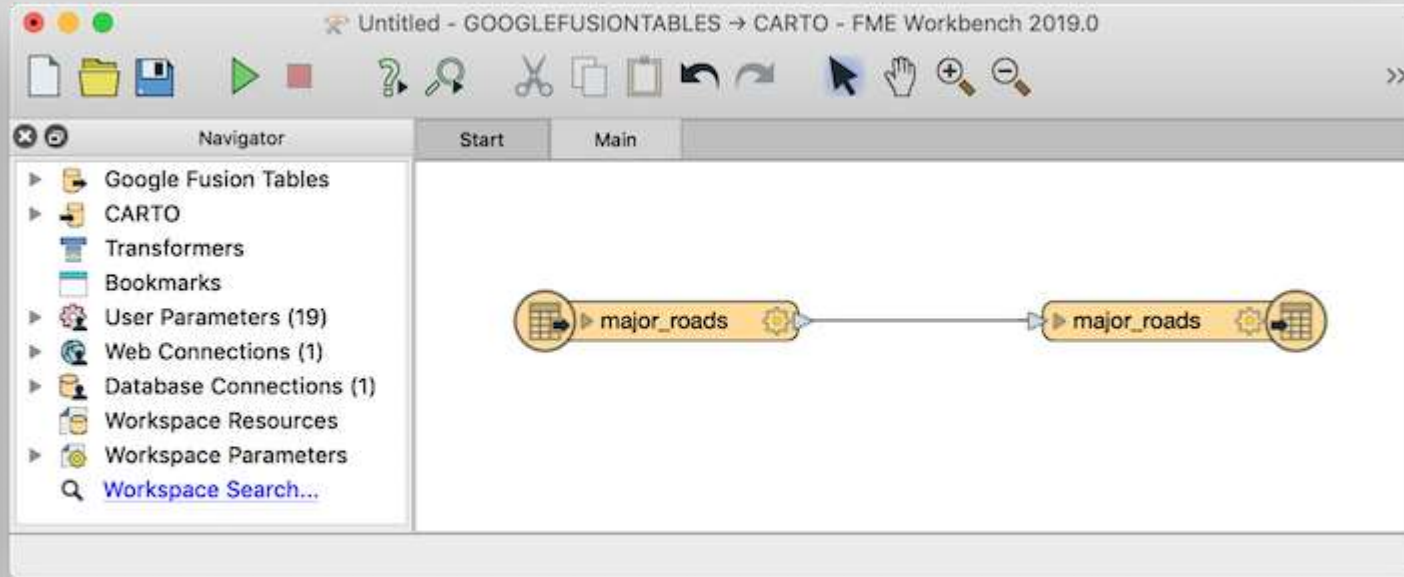


APH Data Automation Project

Dorr Elmatad
Brian Morris
Stefan Wray

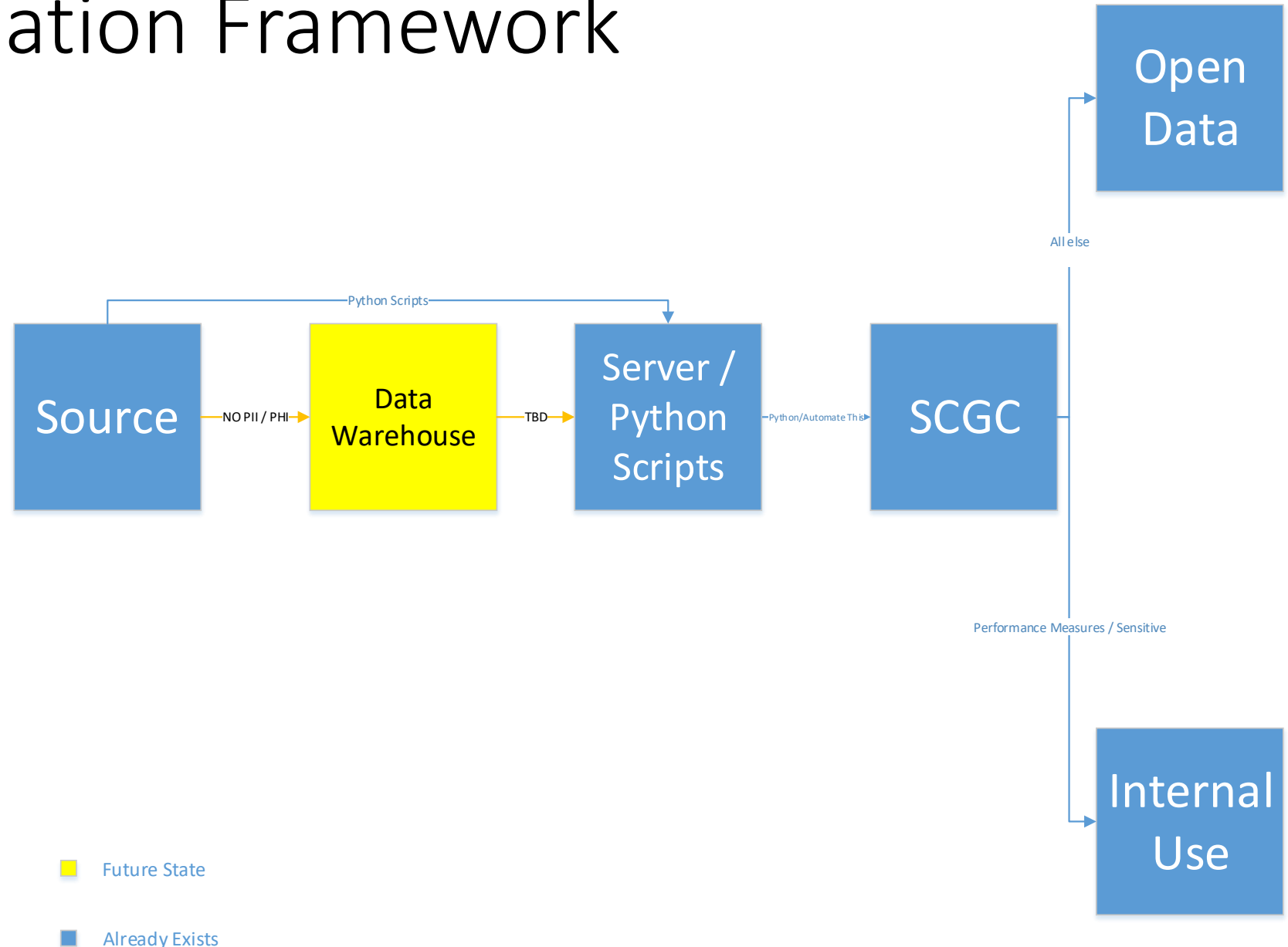
OLD: FME



NEW: Automation Framework

What We Need:

1. Query for Source System (SQL, etc.)
2. SCGC Automation Script
3. Server with scheduled Task



Query of Database

Code Snippet Courtesy of
Brian Morris

```
import argparse
import base64
from Crypto.Cipher import AES
from Crypto import Random
import cx_Oracle as ora
import pymssql as mssql
import pandas as pd
import time
import xml.etree.ElementTree as et
from socrata.authorization import Authorization
from socrata import Socrata

class OpenDataSet:

    def __init__(self):
        self.connectionType = ""
        self.server = ""
        self.username = ""
        self.password = ""
        self.database = ""
        self.port = ""
        self.query = ""
        self.view = ""
        self.config = ""

    def getConnection(self):
        if self.connectionType == "MSSQL":
            return mssql.connect(server=self.server, user=self.username, password=self.password, database=self.database)
        if connType == "ORACLE":
            dsn_tns = ora.makedsn(self.server, self.port, self.database)
            return ora.connect(self.username, self.password, dsn_tns)
        else:
            return "unknown"

def main(args):
    # Get the dataset name from the command line
    if args.DataSet != "":

        # Get the dataset info from the XML
        ods = getDatasetInfo(args.DataSet)
        # Create the connection to the database
        connection = ods.getConnection()
        # Create the dataframe
        df = pd.read_sql(ods.query, con=connection)
        # Close the database connection
        connection.close()
        # Save the dataframe to a file
        writeFile(df, args.FileName)
        # Post the file to SCGC?
        if args.Upload == True:
```

SCGC Automation

Choose Data Source > Preview



Preview Data Table

File Configurations

Add georeference

Add Column

Column Mapping

EimatadDorr changed the schema a few seconds ago

Data Preview (Inspection Scores 06282019.xlsx)

folderrsn

estabname

processdesc

estabstreet

estabcity

estabzip

inspdate

Number	Text	Text	Text	Text	Number	Date & Time
11,491,781	LW - MOD Superfast Pizza LLC	Routine Inspection	1900 S FM 620 RD	LAKEWAY	78,734	2019 May 22 12:00:00 AM
2,801,373	LW - Yaupon Country Club	Routine Inspection	100 CLUBHOUSE DR	LAKEWAY	78,734	2019 May 29 12:00:00 AM
10,260,547	BC - Chick-Fil-A of Lake Travis	Routine Inspection	3600 S FM 620 RD Bldg C	BEE CAVE	78,738	2019 Jun 07 12:00:00 AM
12,074,384	Blenders and Bowls	Routine Inspection	11010 DOMAIN DR Bunit 19	AUSTIN	78,758	2019 Apr 29 12:00:00 AM
12,168,732	Marco's Pizza	Routine Inspection	14815 DESSAU RD Unit 400	PFLUGERVILLE	78,660	2019 May 22 12:00:00 AM
2,800,109	Lee Elementary School	Routine Inspection	3308 HAMPTON RD	AUSTIN	78,705	2019 May 02 12:00:00 AM
2,800,666	Oasis Cantina	Routine Inspection	6550 COMANCHE TRL	AUSTIN	78,732	2019 Apr 30 12:00:00 AM
10,260,892	BC - HEB Food Store #404	Routine Inspection	12400 W SH 71	BEE CAVE	78,738	2019 Jun 04 12:00:00 AM
10,260,923	BC - HEB Food Store #404 (Deli/Bakery)	Routine Inspection	12400 W SH 71	BEE CAVE	78,738	2019 Jun 04 12:00:00 AM
2,802,671	Mandola's Italian Market	Routine Inspection	4700 W GUADALUPE ST	AUSTIN	78,751	2019 May 16 12:00:00 AM
10,275,866	Baguette House & Cafe	Routine Inspection	10901 N LAMAR BLVD Bunit 312	AUSTIN	78,753	2019 May 30 12:00:00 AM
11,232,472	Torchy's Tacos	Routine Inspection	1801 E 51ST ST Bunit 450	AUSTIN	78,723	2019 May 30 12:00:00 AM
11,741,231	LW-Lake Travis Independent Living	Routine Inspection	3012 MEDICAL PKWY	LAKEWAY	78,738	2019 May 22 12:00:00 AM
2,801,135	Steiner Ranch Elementary School	Routine Inspection	4001 N QUINLAN PARK RD	AUSTIN	78,732	2019 May 16 12:00:00 AM
2,800,433	Becker Elementary	Routine Inspection	906 W MILTON ST	AUSTIN	78,704	2019 May 16 12:00:00 AM
2,800,411	24 Diner	Routine Inspection	600 N LAMAR BLVD	AUSTIN	78,703	2019 May 17 12:00:00 AM
11,198,007	El Tacorrido	Routine Inspection	9320 N LAMAR BLVD	AUSTIN	78,753	2019 May 14 12:00:00 AM
11,153,437	Knight's Assisted Living	Routine Inspection	20816 WINDMILL RIDGE ST	PFLUGERVILLE	78,660	2019 Jun 05 12:00:00 AM
10,184,409	Gus Garcia Recreation Center	Routine Inspection	1201 E RUNDBERG LN	AUSTIN	78,753	2019 May 13 12:00:00 AM
11,800,283	7-Eleven Convenience Store #232958	Routine Inspection	411 W MARTIN LUTHER KING JR BLVD	AUSTIN	78,701	2019 Apr 29 12:00:00 AM
2,800,979	Guero's Taco Bar	Routine Inspection	1412 S CONGRESS AVE	AUSTIN	78,704	2019 May 29 12:00:00 AM
11,663,025	Autumn Leaves of South Austin	Routine Inspection	5200 DAVIS LN Bldg A	AUSTIN	78,749	2019 May 02 12:00:00 AM
11,794,110	Aulary	Routine Inspection	2110 S LAMAR BLVD	AUSTIN	78,704	2019 May 23 12:00:00 AM

Showing rows 1-50 of 971






Ready to import 971 rows. Rows that will not be imported: 0

Automate This

Export Errors

Save

Server and scheduled Tasks

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result
 1 Day Schedule	Ready	At 5:48 AM every day	7/16/2019 5:48:00 AM	Never	
 30 Day Schedule SCGC	Ready	At 9:46 AM on day 7 of January, February, March, April, ...	8/7/2019 9:46:37 AM	Never	
 365 Day Schedule SCGC	Ready	At 5:55 AM every 365 days	7/14/2020 5:55:30 AM	Never	
 7 Day Schedule SCGC	Ready	At 4:00 AM every Sunday of every week, starting 7/12/2019	7/21/2019 4:13:36 AM	7/14/2019 4:57:19 AM	The operation completed successfully. (0x0)
 90 Day Schedule SCGC	Ready	At 5:40 AM every 90 days	10/13/2019 5:40:10 ...	Never	

Future Ideas

Log Files

Error
Handling

Automation
Request
Process