Platform Training Highlights

Terry Alexander, Ph.D.
Pfizer

Advanced Spatial Analytics

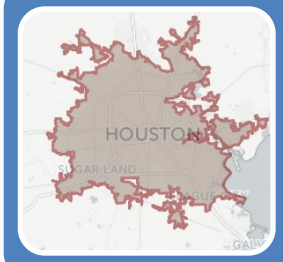
Flood Risk Use Case

Advanced Spatial Analytics

Flood Risk Use Case

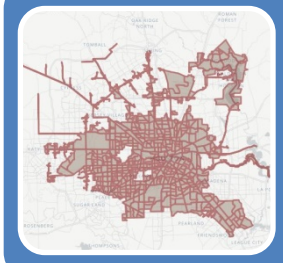
Texas Rivers

- Name
- 100 Year Flood Range
- Spatial Objects - Lines



Houston Urban Area

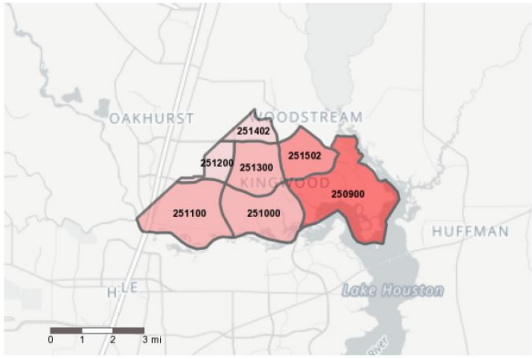
- Spatial Object - Polygon



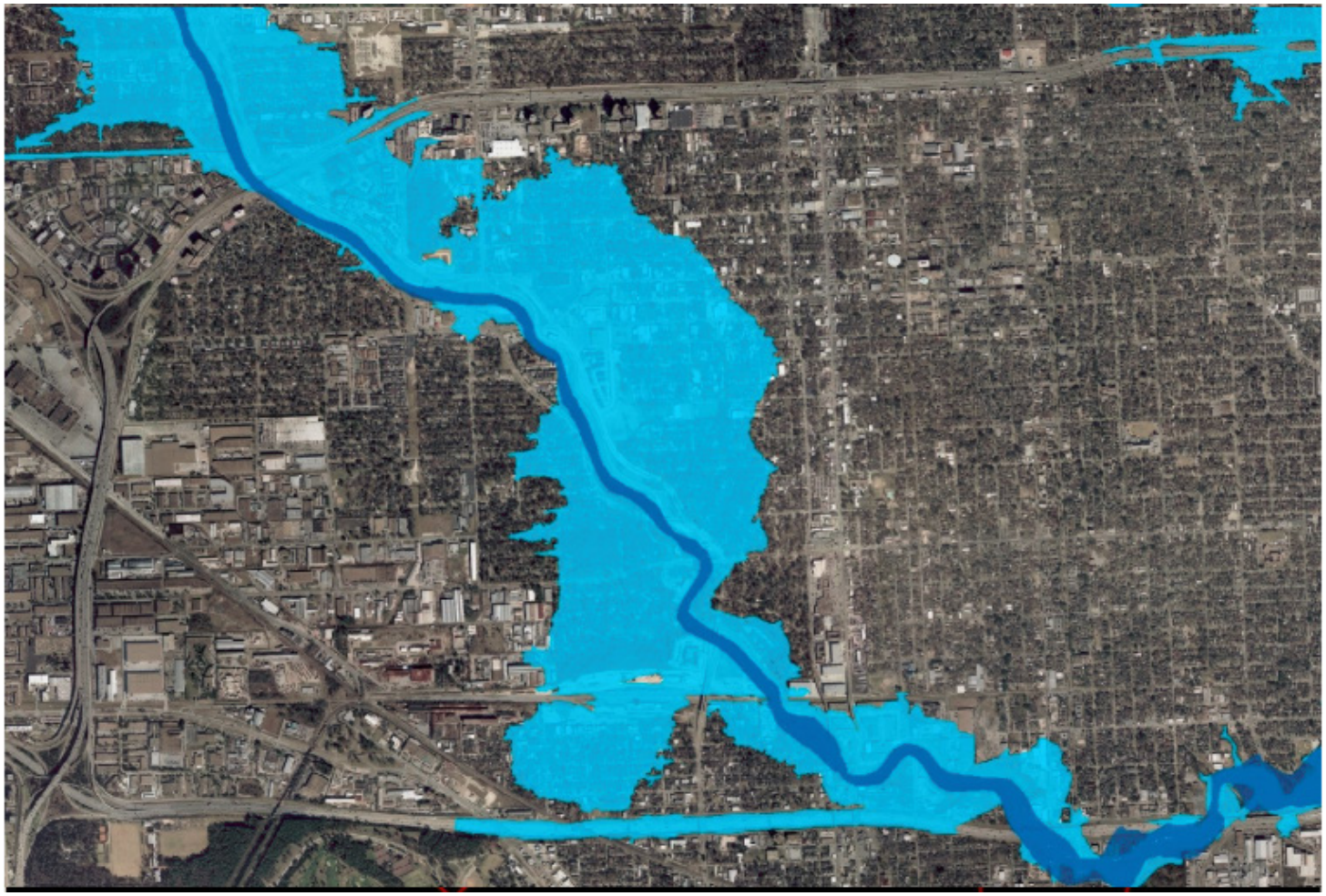
Houston Housing Tracts

- Tract
- Houses per Tract
- Median House Value
- Spatial Objects - Polygons

Houston Housing Tracts with Assumed Flood Risk > $250M

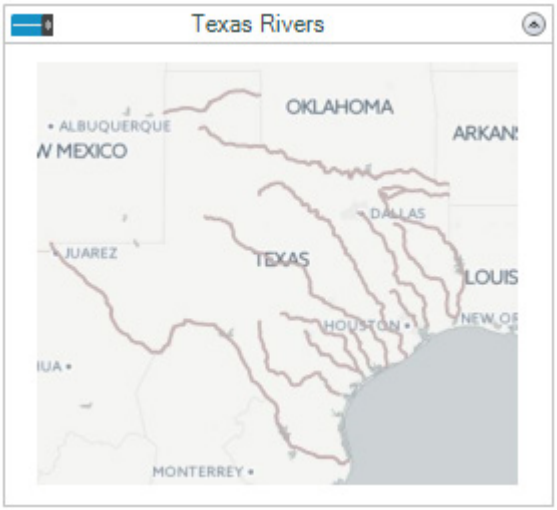


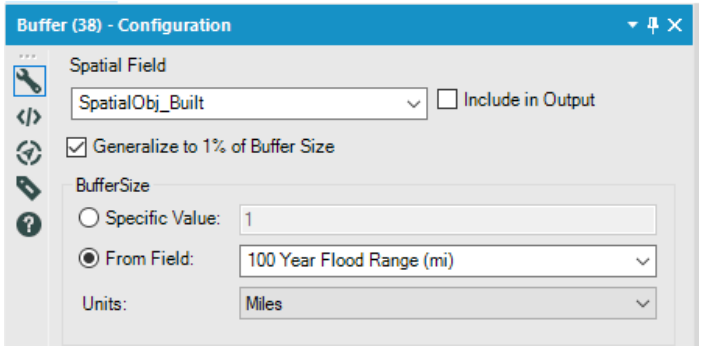
TRACT	Total Houses per Tract	Median House Value	Assumed Risk
250900	3,559	$334,475	$1,131,423,997
251502	3,633	$218,417	$793,507,750
251000	1,478	$385,150	$569,251,700
251100	2,967	$167,180	$496,021,344
251300	2,665	$178,500	$475,702,500
251402	2,358	$113,133	$266,768,400
251200	1,880	$138,400	$260,192,000



Advanced Spatial Analytics

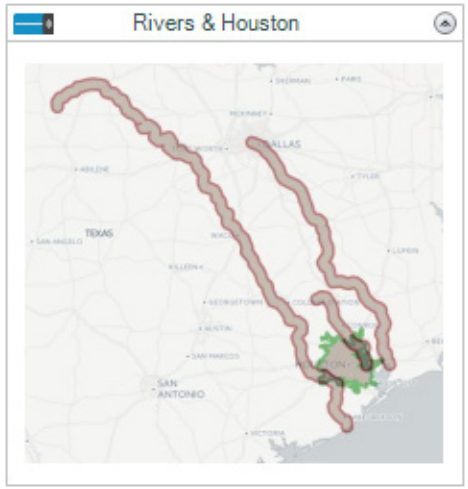
Flood Risk Use Case

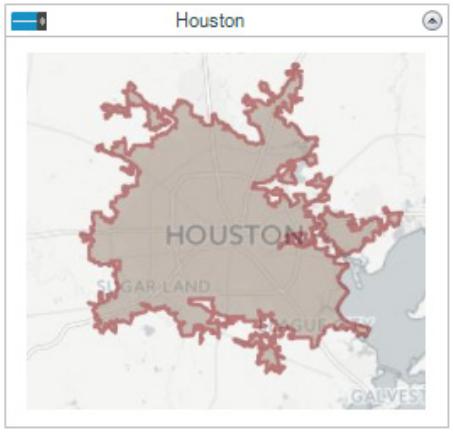


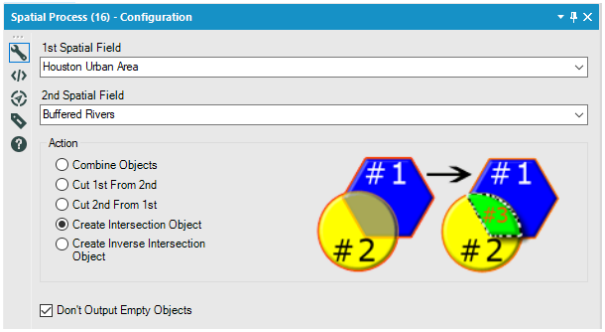


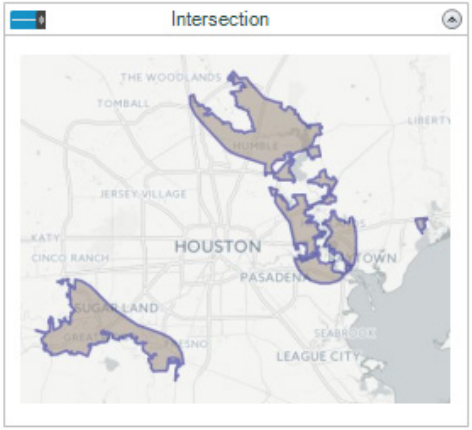
Advanced Spatial Analytics

Flood Risk Use Case



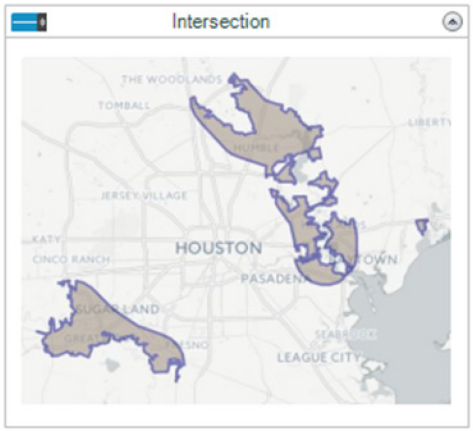


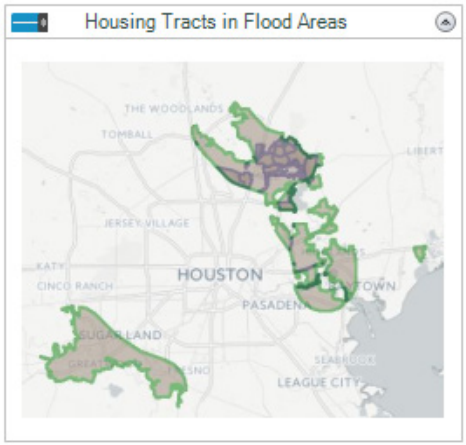


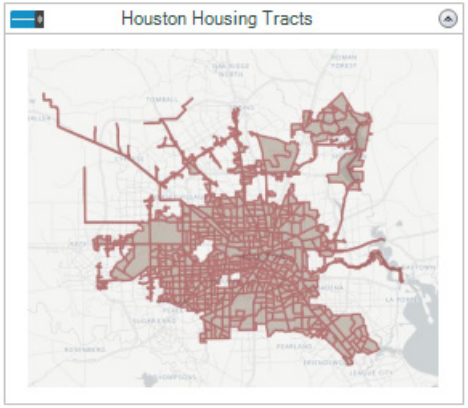


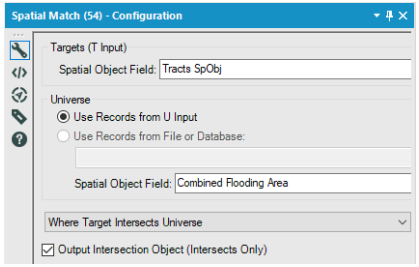
Advanced Spatial Analytics

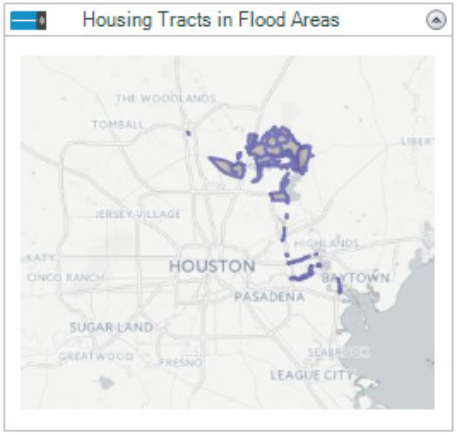
Flood Risk Use Case





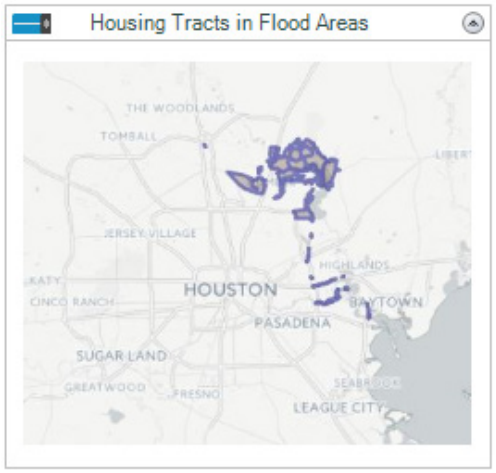


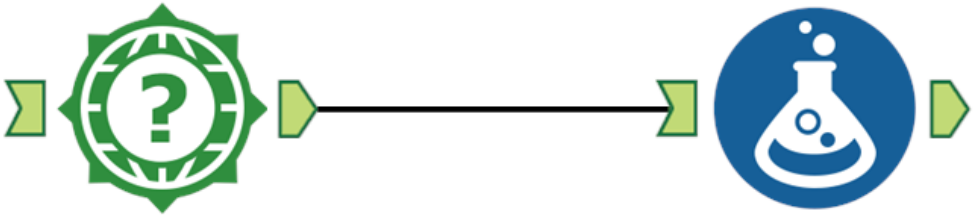


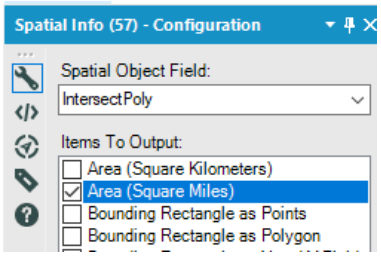


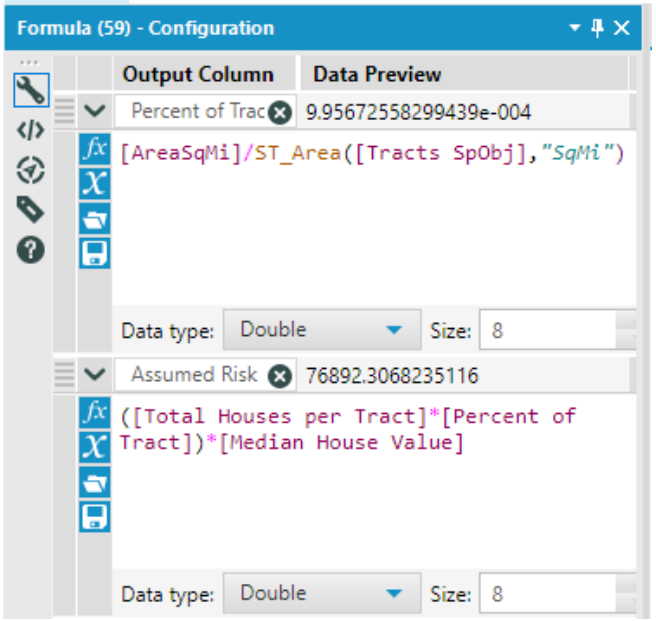
Advanced Spatial Analytics

Flood Risk Use Case



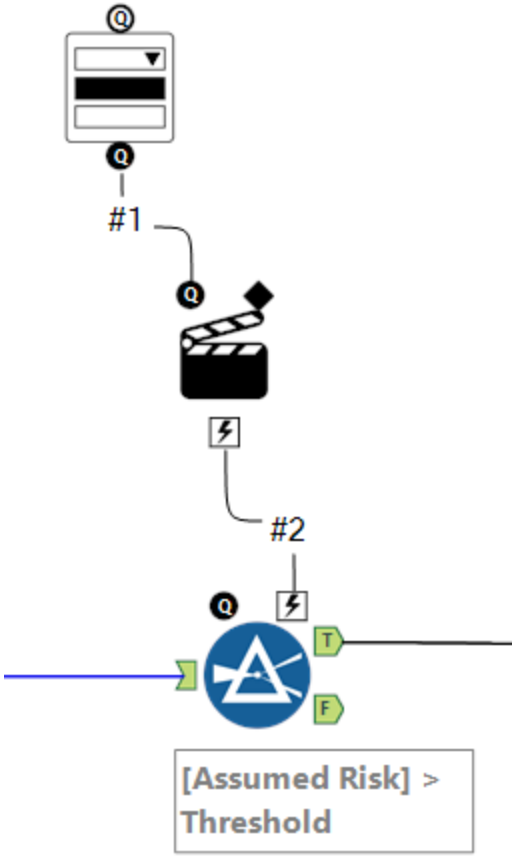


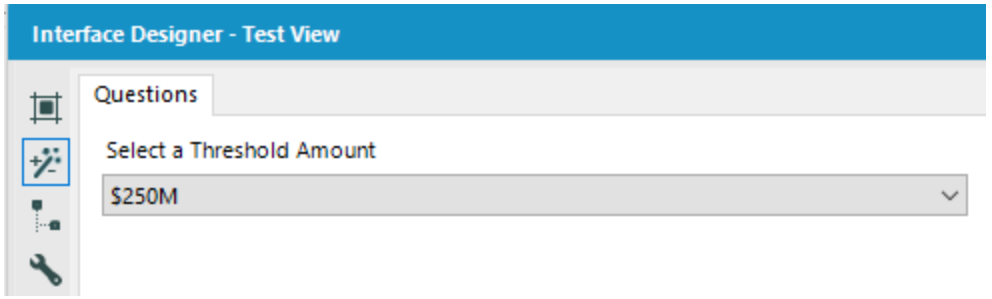




Advanced Spatial Analytics

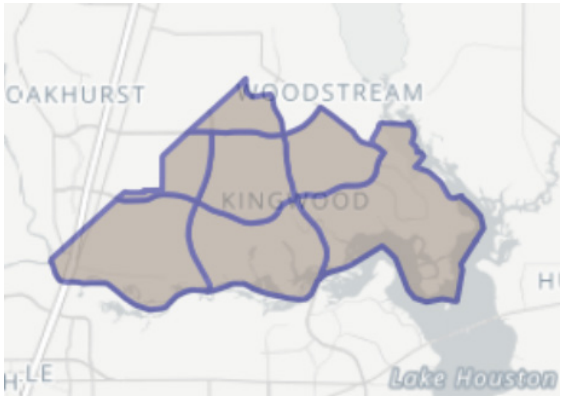
Flood Risk Use Case

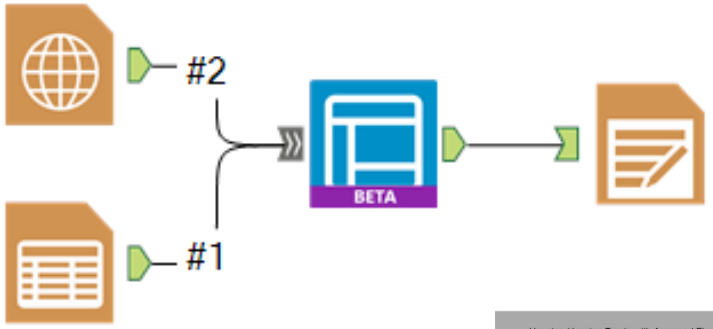




Advanced Spatial Analytics

Flood Risk Use Case

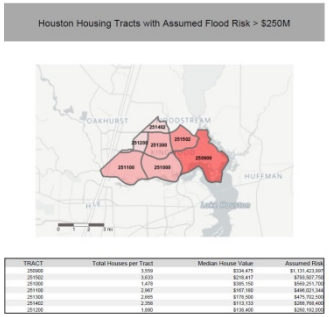




Results - Browse (58) - Input

4 of 9 Fields | Cell Viewer | 7 records displayed, 184 KB

Record #	TRACT	Total Houses per Tract	Median House Value	Assumed Risk
1	250900	3559	334475	1131423997.02012
2	251502	3633	218416.666667	793507750
3	251000	1478	385150	569251700
4	251100	2967	167180	496021344.401532
5	251300	2665	178500	475702500
6	251402	2358	113133.333333	266768400
7	251200	1880	138400	260192000



Build a Custom Connector

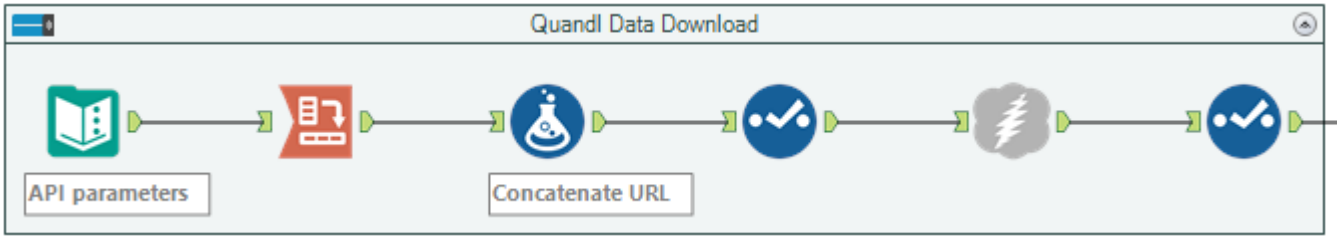
Quandl Example

Build a Custom Connector

Quandl Example

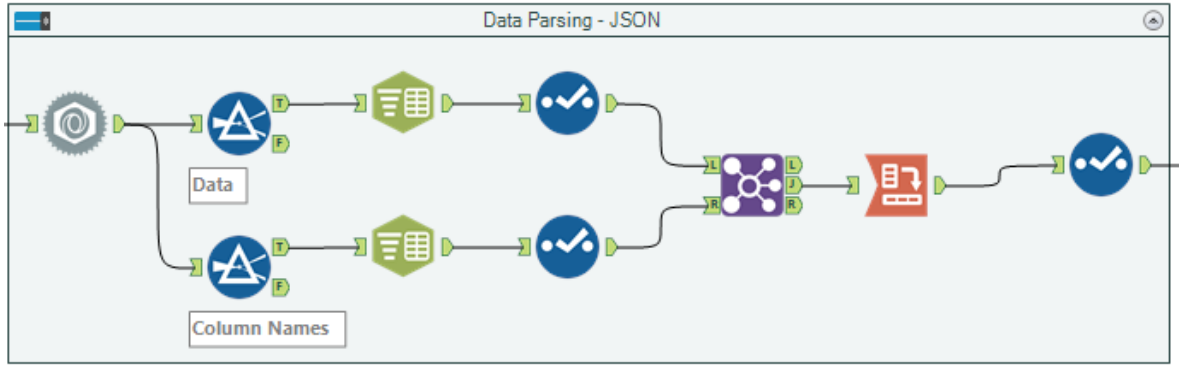
API parameters

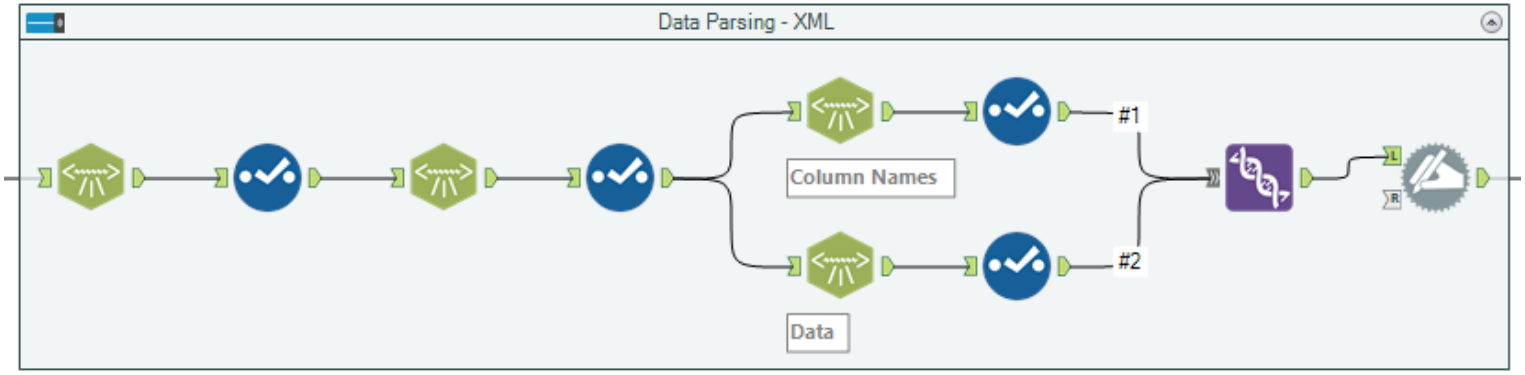
Name	Value
base_url	https://www.quandl.com/api/v3/datasets/
api_key	**********
database_code	WIKI
dataset_code	FB
data_format	.json
data_specs	data
limit	500
order	asc
start_date	5/17/2016
end_date	5/19/2016

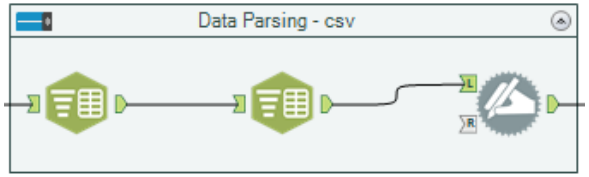


Build a Custom Connector

Quandl Example

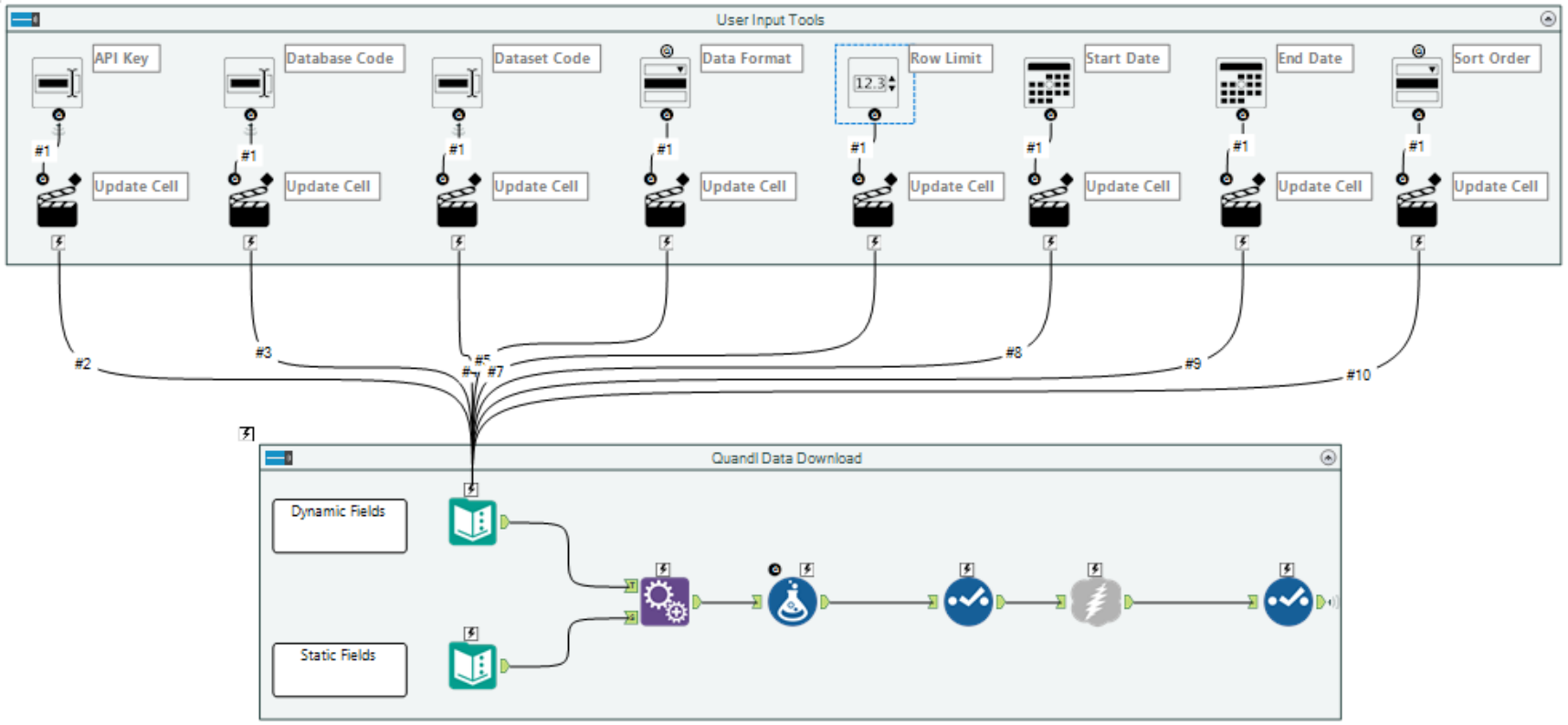


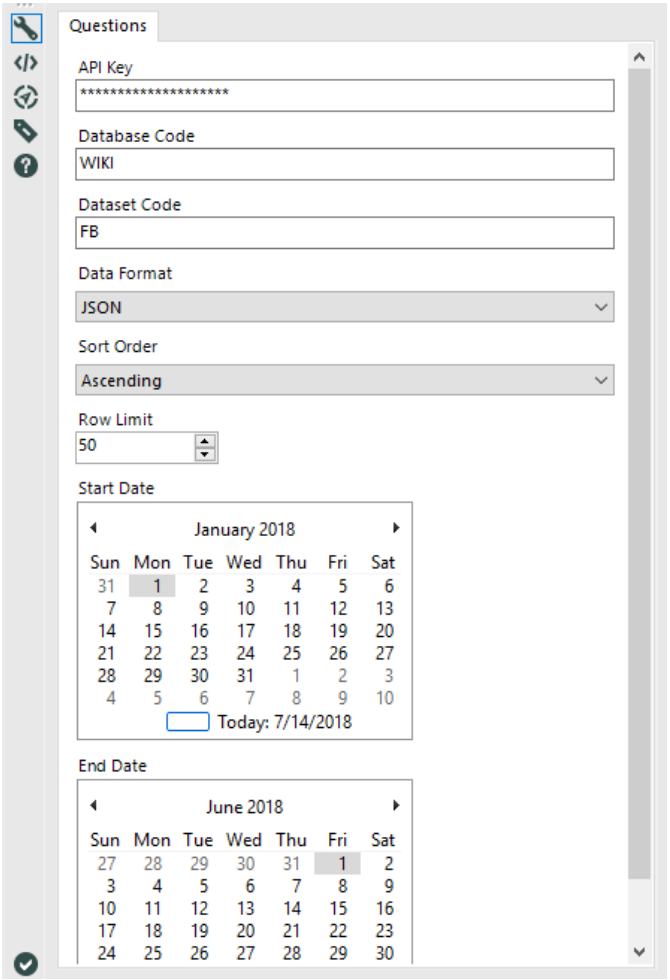
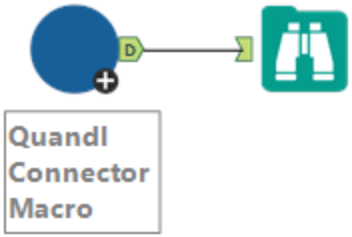




Build a Custom Connector

Quandl Example



Build a Custom Connector

Quandl Example