GIS Centre Top 10 Tools

Joins for ArcPro

Joins a table to a layer based on a common field/attribute. This is a temporary join and will not persist from 1 session to another unless new file is saved. To ensure the join saves, **export the layer** to the Project geodatabase as a new feature class.

INPUT

OBJECT ID#	Landuse Code
1	2
2	0
3	1

Join Fields

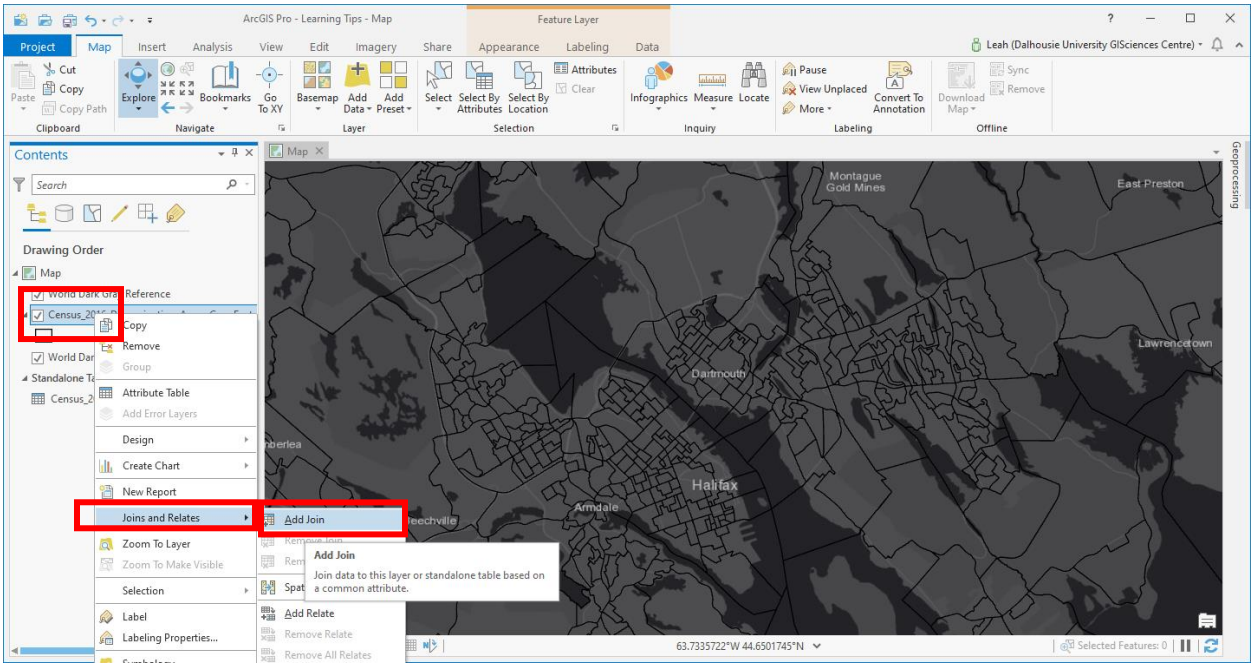
Landuse Code	Landuse Type
0	Unclassified
1	shrub
2	water

OUTPUT

OBJECT ID#	Landuse Code	Join Table Landuse Code	Join Table Landuse Type
1	2	2	water
2	0	0	Unclassified
3	1	1	shrub

(https://pro.arcgis.com/en/pro-app/tool-reference/data-management/add-join.htm)

Where do I find it?



Right click on the layer you want to join a table to. In the window that appears, hover over **Joins and Relates**, and select **Add Join**.

Parameters:

Layer Name or Table View –Indicates which data will be added to the table that doesn't have a spatial attribute to be joined to another table (usually the attribute table). This is the recommended choice to join a table

1. **Input Join Field**: Choose the field/attribute that is common between the 2 files. Select field from the dropdown list

2. **Join Table:** Choose the table that you want to join to the first table.

3. **Output Join Field:** Use the dropdown to select the layer that will be used to join. It is important to note that only columns of the same data type are listed (as they are the only ones that can be joined).

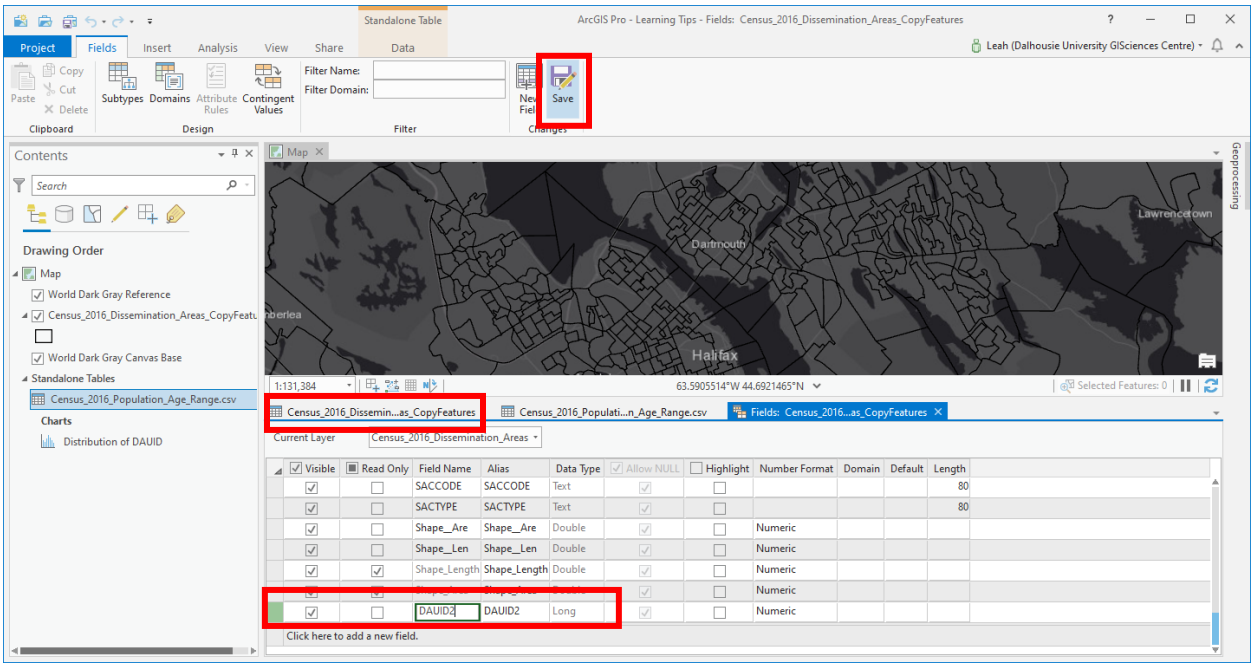
Join Options (Radio button) – Allows the users which records are to be kept.

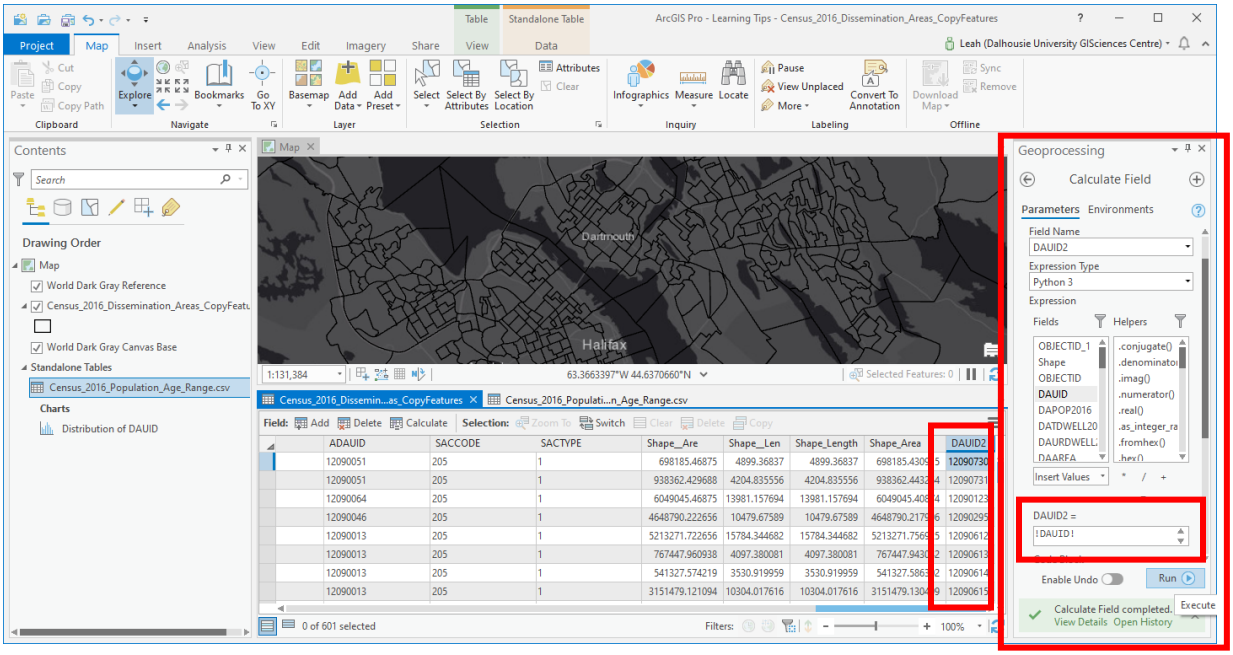
Keep all target records – Checkbox (if checked) will keep all records in the target table. Where there is no values to join then NULL values will be used.

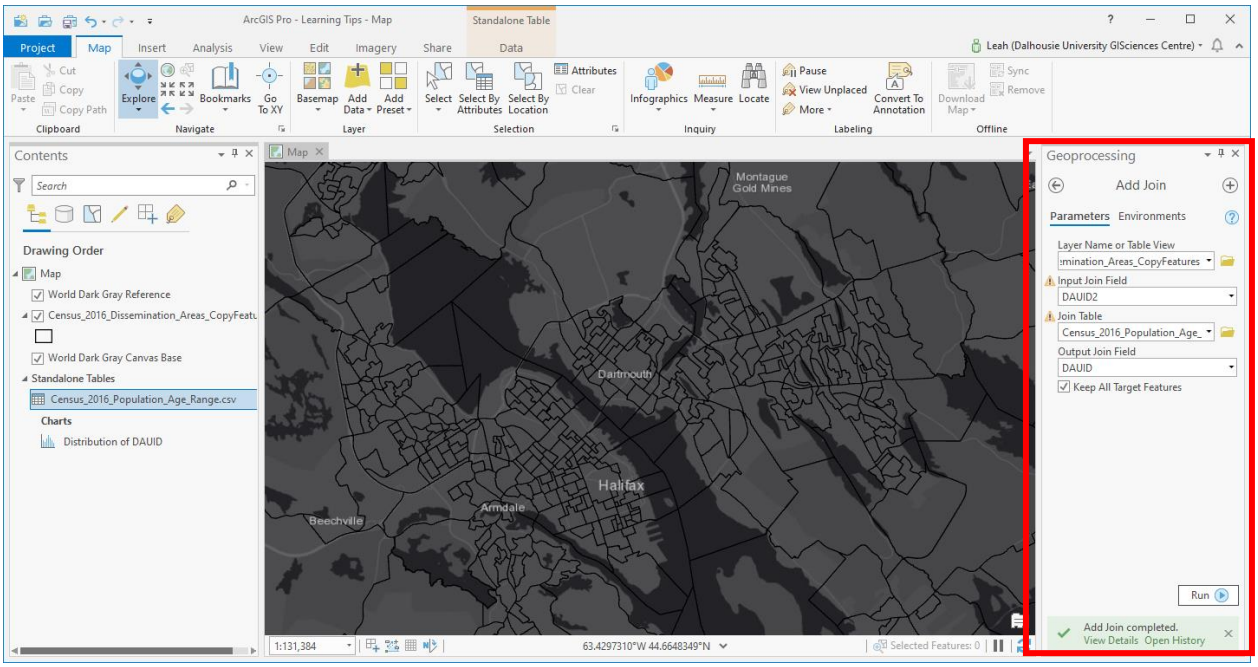
If unchecked will keep only matching records – will keep only records that exists in both tables.

Hints:

In order to join files the data type has to be the same. If they are not, you will need to make it so it is. The simplest way for this to happen is to **add a new field** of the correct type (usually to the feature class), then to use **Field Calculator to copy the original field to the new field**.


ArcGIS Pro - Learning Tips - Fields: Census_2016_Dissemination_Areas_CopyFeatures
Standalone Table
Project
Fields
Insert
Analysis
View
Share
Data
Save
Contents
Drawing Order
Map
World Dark Gray Reference
World Dark Gray Canvas Base
Standalone Tables
Census_2016_Population_Age_Range.csv
Charts
Distribution of DAUID
Dartmouth
Halifax
Lawrencetown
Census_2016_Dissemin...as_CopyFeatures
Census_2016_Populati...n_Age_Range.csv
Fields: Census_2016...as_CopyFeatures
Current Layer
Census_2016_Dissemination_Areas
Visible
Read Only
Field Name
Alias
Data Type
Allow NULL
Highlight
Number Format
Domain
Default
Length
SACCODE
SACTYPE
Shape__Are
Shape__Len
Shape_Length
DAUID2
Text
Double
Long
Numeric
Click here to add a new field.


ArcGIS Pro - Learning Tips - Census_2016_Dissemination_Areas_CopyFeatures
Project
Map
Insert
Analysis
View
Edit
Imagery
Share
Table
Standalone Table
Data
Contents
Drawing Order
Dartmouth
Halifax
Geoprocessing
Calculate Field
Parameters
Environments
Field Name
DAUID2
Expression Type
Python 3
Expression
Fields
Helpers
OBJECTID_1
Shape
OBJECTID
DAUID
DAPOP2016
DATDWELL20
DAURDWELL
DAAREA
Insert Values
DAUID2 =
!DAUID!
Enable Undo
Run
Execute
Calculate Field completed.
View Details
Open History
Census_2016_Dissemin...as_CopyFeatures
Census_2016_Populati...n_Age_Range.csv
Field:
Add
Delete
Calculate
Selection:
Switch
Clear
Copy
ADAUID
SACCODE
SACTYPE
Shape__Are
Shape__Len
Shape_Length
Shape_Area
DAUID2
12090051
12090064
12090046
12090013
0 of 601 selected
Filters:
100%



You may need/want to summarize your data before joining to the table depending on how it is organized (multiple values for each feature).

Joins are case sensitive. Make sure the case matches.

Joins are only temporary. To make them permanent, save them to a new file. Right click on the file name in the Table of Contents – Data – Export Data