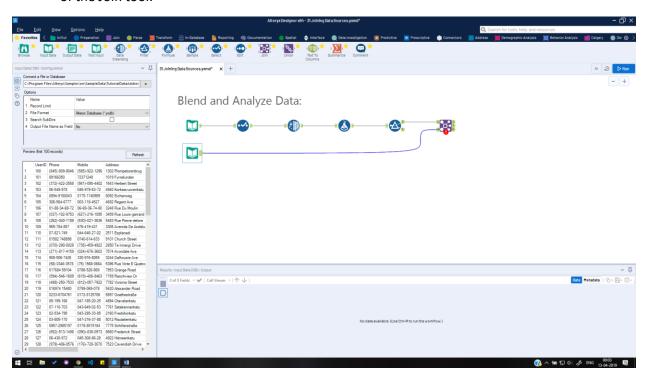
Experiment 3

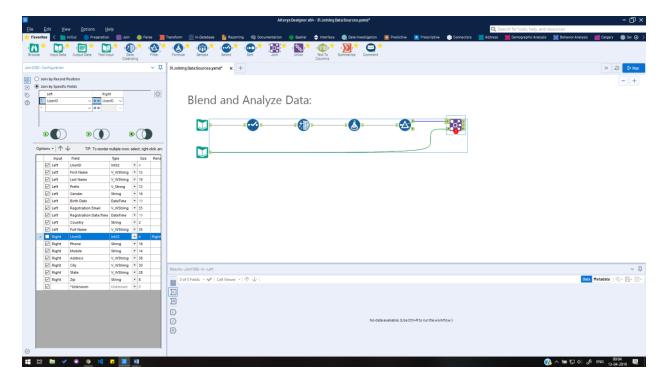
Perform the task of blending and analyzing of data using Altryx. i.e. joining two or more data sources, splitting a string column and analyzing data based on a column.

Joining Data Sources

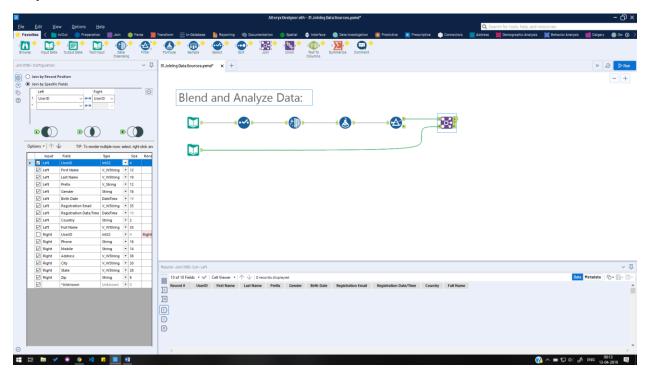
- 1. Relevant data is contained in two different input files.
- Drag a new Input Tool onto the canvas. In the Configuration window on the left, click the Connect a File or Database drop down browse to the TutorialDataAddresses.yxdb file in \Alteryx\Samples\en\SampleData\
- 3. Drag a Join tool onto the canvas so the T output anchor of the Filter tool connects to the L input anchor of the Join tool. Click and drag the Input Data tool's output anchor to the R input anchor of the Join tool.

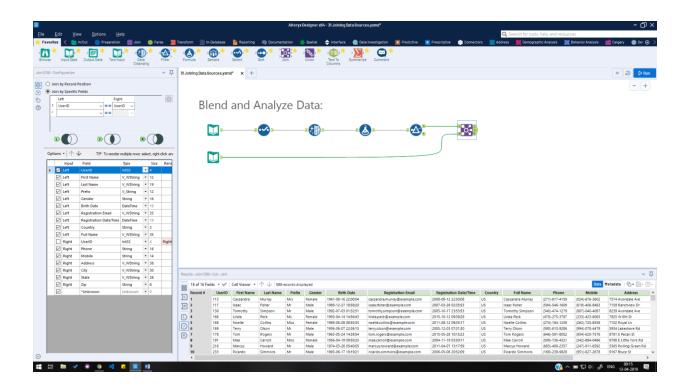


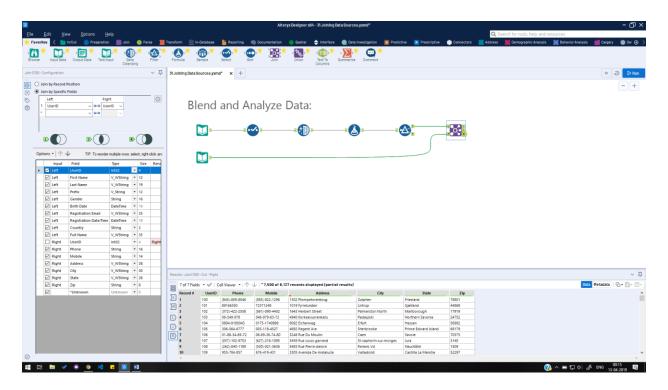
4. Click the Join tool to access it's configuration window. Verify that Join by Specific Fields is selected. Then select UserID with both the Left and Right drop downs. In the table, find the UserID that has Right_UserID in the Rename column and deselect the field to stop the data from passing through the Join tool.



5. Run the workflow to see the results in the Results window. Click between the L (Left), J (Joined), and R (Right) results pages or corresponding tool anchors to see which records were and were not joined.

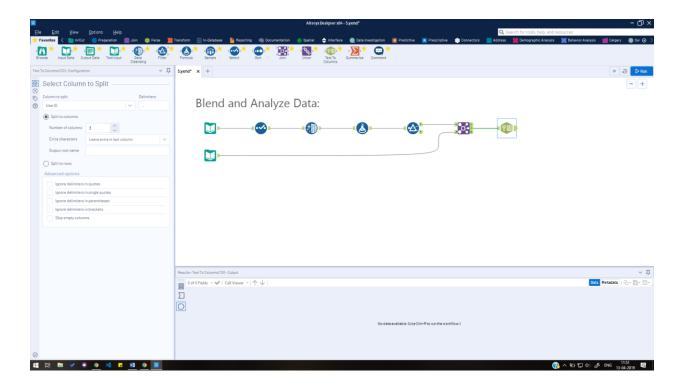




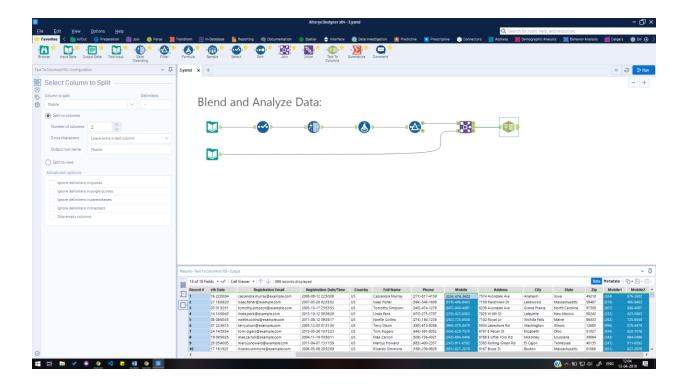


Splitting a String Column

- 1. A column contains data that needs to be manipulated separately.
- 2. Drag a Text to Columns tool onto the canvas so the J output anchor of the Join tool connects to the input anchor of the Text to Columns tool.

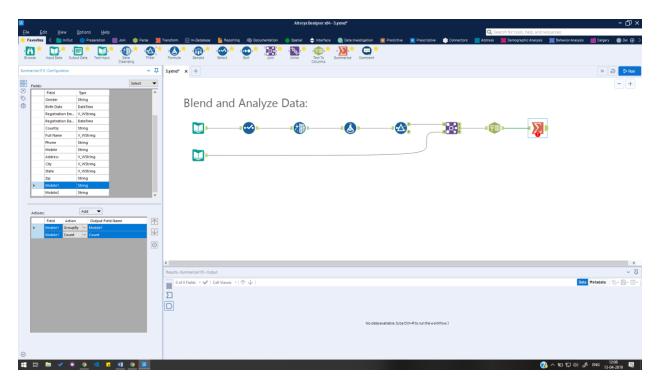


- 3. In the Configuration window on the left, use the Column to split drop down to select Mobile. In the Delimiters text box, replace the default "," with a "-".
- 4. Verify that Split to Columns is selected. Change # of Columns from the default "3" to "2".
- 5. Run the workflow to see the results in the Results window. The original column is split into two new columns. Mobile1 contains the area code, and Mobile 2 contains the seven-digit phone number.

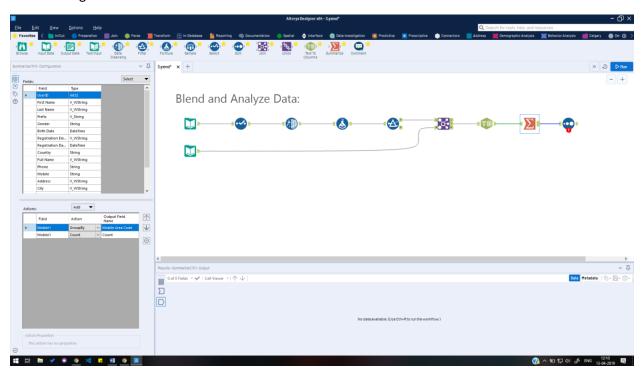


Analyzing Data based on a Column

- 1. A column contains data with repeated values, and knowing the repetitions of the values is useful.
- 2. Drag a Summarize tool onto the canvas and connect it to the Text to Columns tool.
- 3. In the Configuration window on the left, select Mobile1 under Field. Click the Add drop down and choose Group By to add a row to the Actions list. With Mobile1 still selected, click the Add drop down and choose Count.



- 4. Under Actions, click the Output Field Name text box to change Mobile1 to Mobile Area Code.
- 5. Drag a Sort tool onto the canvas and connect it to the Summarize tool.



6. In the Configuration window on the left, use the Name drop down to select Count. Use the Order drop down to select Descending.

7. Run the workflow to see the results in the Results window. The results now contain only two columns: Mobile Area Code and Count. The data is sorted by the number of people with the same area code, beginning with the highest number.

