



**ENTRINSICON**  
***LEVEL UP!***

September 26<sup>th</sup>-29<sup>th</sup>, 2023  
Raleigh, NC

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# Using Flow Steps

## to Enhance your Data Output

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# Agenda

- 1 Add Fields
- 2 Transform
- 3 Advanced
- 4 Remove
- 5 Special Considerations

# Jen Brechin

Entrinsik

# Add Fields












**Calculated Field** – creates a new field using Javascript

**Code Field** – adds a new field using existing codes which have been created in the Administration section

**Concatenate** – joins two or more fields with a specified delimiter

**Coordinates from Lat/Lon** – queries with latitude and longitude values stored separately can use this flow step to combine the coordinates into a single location value that can be used in map visuals

**Counter** – adds an auto-incremented integer to each record within the Query. The order of records at the time of the flow step's creation dictates the number assigned to each record.

-  Calculated Field
-  Code Field
-  Concatenate
-  Coordinates from Lat/Lon
-  Counter
-  Fields from another Dataset
-  Percent of Total
-  Fields from another Datasource
-  Templated Field
-  Time Between
-  Zip2Geo

# Add Fields

**Fields from another Dataset** – allows columns of data to be included from another Dataset when a shared value exists in both Datasets (ie, Id number)

**Percent of Total** – calculates the sum of a field from all records and then determines the percentage of the total value each individual row

**Fields from another Datasource** – allows you to join records from different Data sources or the same Data source using a common field

**Templated Field** – creates a text field that allows for a combination of text and field values from the row

**Time Between** – calculates the amount of time between two date fields (date fields can be values in the row or literal values)

**Zip2 Geo** – converts a zip code into a location field for use in map visuals

# Transform

**Field Settings** – allows you to modify the data type, default value and security of each field in your Query

**Find and Replace** – replaces all instances of one value in a specified field with an alternate value

**Merge Duplicates** – merges records containing the same value for a field or group of fields into a single row

**Normalize** – splits arrays into separate rows for each field selected

**Sanitize Aliases** – transforms aliases into valid JavaScript camel case variable names to allow for easier use in Power Script or Calculated Fields



Field Settings



Find and Replace



Merge Duplicates



Normalize



Sanitize Aliases

# Advanced

**Flush** – instructs the system to finish processing all records before continuing to the next flow step. Flush is intended to be used with \$local.

**Java Calculated Field** – flow step which is used by the system when reports are migrated from Informer.

**Power Script** – allows for advanced scripting to manipulate data



Flush



Java Calculated Field



Power Script



# Remove

**Remove Fields – removes the fields from the Query**

**Removing fields differs from hiding fields in the following ways:**

- **Removed fields cannot be used in post query filtering**
- **Fields cannot be referenced in later flow steps**

# Special Considerations

- **Calculated Fields are more efficient than Java Calculated Fields**
- **Fields from another Datasource will affect performance**
- **Fields from another Dataset allow you to join data from multiple sources. Keep in mind:**
  - All affected Datasets should be refreshed together
  - Determine a naming convention for globally used Datasets
  - Be mindful of making changes to the Dataset as it could affect other reports



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Q & A



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Thank You