#### **Create Aggregated Datasets in Oracle Analytics**

#### Before You Begin

This lab shows you how to output multiple datasets from a data flow, add columns, and execute a data flow sequence. You also use the datasets output from executing the sequence to create analyses to verify that your results.

#### Background

In a data flow, you can add a branch to any node, except the train machine learning model node, to output multiple datasets from a single data flow. You can apply different transformations on each branch to create unique datasets.

In this tutorial, you create a sequence to execute multiple data flows using a specific order in a transaction.

You also create visualizations to verify your results.

#### What Do You Need?

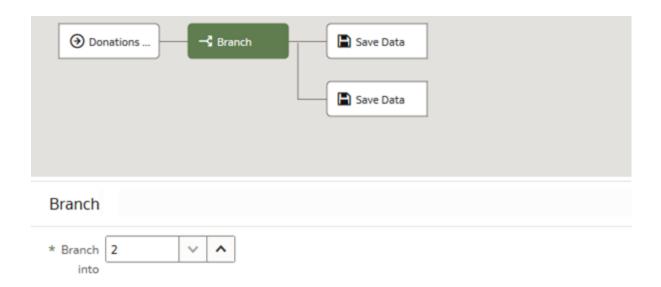
- Access to Oracle Analytics
- Access to the Donations by School dataset

# Create Multiple Datasets

In this section, you create a data flow that has a branch step so that when the data flow is executed, you have two distinct datasets.

- 1. Sign in to Oracle Analytics.
- 2. On the Home page, click **Create**, and then click **Data Flow**.
- 3. In Add Dataset, click **Donations by School**, and then click **Add**.
- 4. In Data Flow Steps, double-click **Branch**.

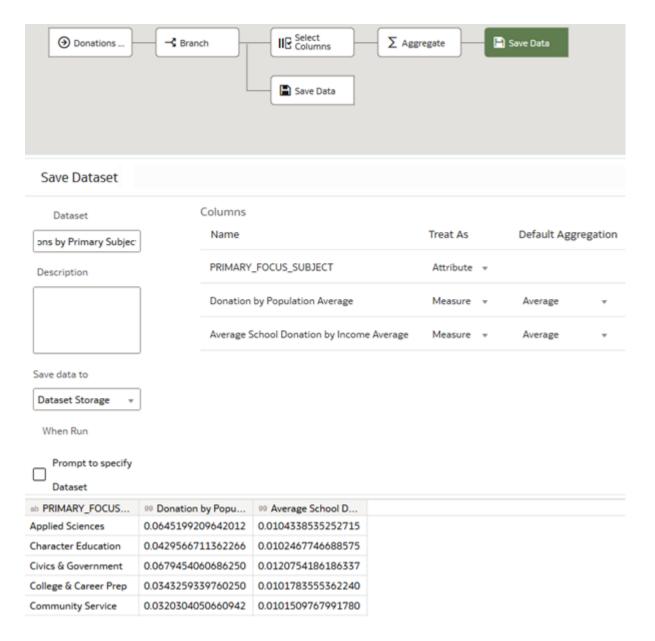
The Branch step adds two Save Data steps to the data flow.



ab SCHOOL_ID	ab PRIMARY_FOCU	ab RESOURCE_T	ab POVERTY_LEVEL
0004ffe3558fd70d939ad522b92447c8	Applied Sciences	Technology	C: High poverty
0004ffe3558fd70d939ad522b92447c8	Literacy	Books	C: High poverty
0004ffe3558fd70d939ad522b92447c8	Literacy	Books	C: High poverty

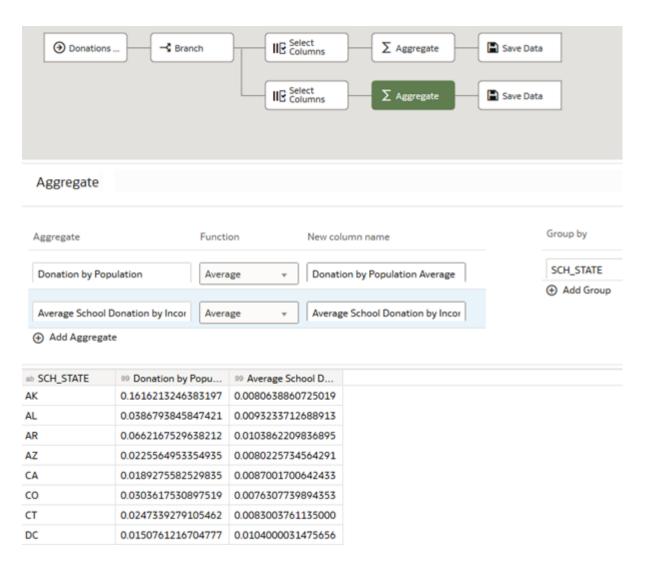
Click **Add a step** ① on the branch before the first Save Data step, and then select **Select Columns**. In Select Columns, click **Remove all**.

- 5. Hold down the **Ctrl** key, and select the following:
  - $\circ \quad \textbf{PRIMARY\_FOCUS\_SUBJECT}$
  - Donation by Population
  - Average School Donation by Income
- 6. Click **Add a step** between Select Columns and Save Data, and then click **Aggregate**. In Aggregate, select **Average** under Function in both rows.
- 7. Click **Save Data** on the first branch. In Save Dataset, enter Donations by Primary Subject Area in **Name**. In Save data to, select **Dataset Storage** to save the data in Oracle Analytics.



## Define the Second Branch

- 1. In the data flow, select the Add a step node on the second branch, and then click **Select Columns**. In Select Columns, click **Remove all**.
- 2. Hold down the **Ctrl** key, and select the following:
  - SCH\_STATE
  - Donation by Population
  - Average School Donation by Income
- 3. Click Add a step 
  on the Select Columns node, and select Aggregate. In Aggregate, select Average from Function in both rows.



- 4. Click **Save Data** on the second branch. In Save Dataset, enter Donations by State in **Name**. In Save data to, select **Dataset Storage**.
- 5. Click **Save** . Click **Run Data Flow**. After the data flow completed message appears, click **Go back** .

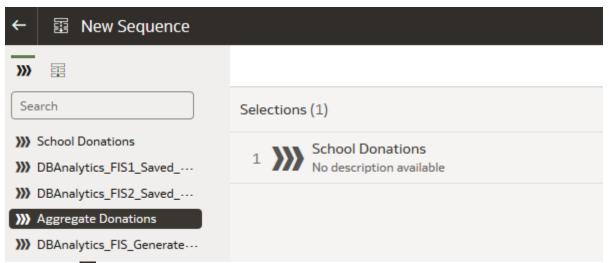
## Inspect the Datasets

- 1. On the Home page, search for the **Donations by Primary Subject Area** dataset. Select the **Donations by Primary Subject Area** dataset, click the **Actions menu**; and then select **Inspect**.
- 2. In the Donations by Primary Subject Area dataset, click **Data Elements** to view the columns, and then click **Close**.
- 3. On the Home page, search for or select the **Donations by State** dataset. Select the **Donations by State** dataset, click the **Actions menu**, and then select **Inspect**.
- 4. In the Donations by State dataset, click **Data Elements** to view the columns, and then click **Close**.

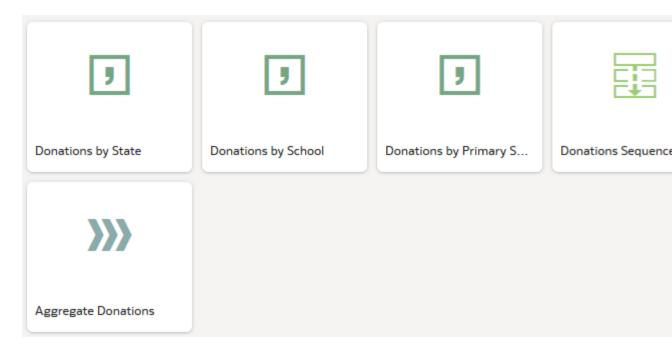
## Create a Data Flow Execution Sequence

When you use dynamic data sources the data flows in the sequence, you can create a schedule to run the sequence.

- 1. On the Home page, click **Create**, and then click **Sequence**.
- 2. In the Data Flows panel, drag **Donations by School** to Selections.
- 3. Right-click **Aggregate Donations**, and then select **Add Data Flow**.



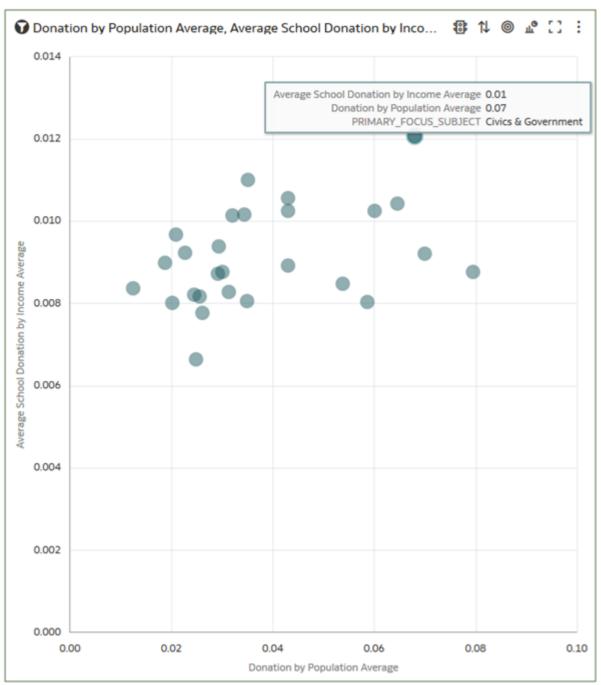
- 4. Click **Save** . In Save Sequence As, enter Donations Sequence in **Name**, and then click **OK**. Click **Execute Sequence**.
- 5. Click **Go back** Con the Home page, enter Donations and click **Search** to view Donations Sequence and its output.



## Create Visualizations

- 1. On the Home page, select **Donations by Primary Subject Area** dataset, click the **Actions menu**, and then select **Create Workbook**.
- 2. In the Data Elements pane, hold down the Ctrl key, and then select the following:

- PRIMARY\_FOCUS\_SUBJECT
- Donation by Population Average
- Average School Donation by Income Average
- 3. Drag the data elements to the canvas.



- 4. Click Go back
- 5. On the Home page, select the **Donations by State** dataset, click the **Actions menu**; and then select **Create Workbook**.
- 6. In the Data Elements pane, hold down the Ctrl key, and then select the following:
  - SCH STATE
  - o Donation by Population Average
  - o Average School Donation by Income Average

#### 7. Drag the data elements to the canvas.

