Rapid Miner Activity 1

1. Expand the **Samples** repository in the **Repository** panel.
2. Next, expand the **data** folder within the samples repository to retrieve the **Products** and **Transactions** data.
3. Drag the **Products** data and the **Transactions** data from the **Samples - Data** folder into the **Process** panel.
4. Search for the **Join** operator in the search box at the top of the **Operator** panel. Drag **Join** into the **Process** panel.
5. Connect the output port of **Retrieve Products** to an input port of **Join** (it doesn't matter which one).
6. Connect **Retrieve Transactions** to the other **Join** input port.
7. Click on **Join** to select it. In the **Parameters** panel find the **key attributes** field.
8. Click **Edit List**. Select *Product ID* for the left and right key attributes. Then, click **Apply**.
9. Drag the **Aggregate** operator into the process. Connect it to the output of **Join**.
10. Click **Aggregate** to select. Make the following changes in the **Parameters** panel:
11. Click on **aggregation attributes**.
12. Select *Customer ID* in the left box and set **function** to *count* in the right box.
13. Stay in this dialog and add another entry *Product Name* with **function** set to *mode*. Click **Apply**.
14. Click on **group by attributes**. Then, select the *Product ID* by moving it to the right. Click **Apply**.

**Activity 2**

Here we will apply a filter to the Titanic data to only look at female /male passengers. Then, we can easily sort the data to find the highest ticket fares paid by women.

1. Drag the **Titanic** data from the **Samples** repository into the **Process**.
2. Search for the **Filter Examples** operator using the search box at the top of the **Operator** panel. Drag **Filter Examples** into the **Process** panel.
3. Connect the output port of **Retrieve Titanic** with the input port of **Filter Examples**.
4. Click **Filter Examples** to select it, then click **Add Filters** in the **Parameters** panel to define a filter.
5. Select *Sex* on the left, *equals* in the middle, and type *Female* in the box on the right. Instead of typing, you can click on the magic wand and select *Female* from the list.
6. Search for and then drag the **Sort** operator into the **Process**.
7. Connect the output of **Filter** with the input of **Sort**.
8. Click on **Sort** to select it. Make the following changes to the **sort by** parameter in the **Parameters** panel:
9. Set **attribute name** to *Passenger Fare*.
10. Change **sorting order** to *descending*.
11. Connect the **Sort** output port to the result port on the right of the **Process** panel.
12. Run the process and inspect the result.