

Market Basket analysis

- You can create co-occurrence visualizations in Tableau.
- used to discover and understand customer purchasing behaviour.
- Ones who bought Product A, how many products did he buy of Product B, C, D
- Step 1: Create a parameter that you will use to dynamically modify the view based on the item you select.
- Step 2: Create calculated fields that you will use to return which items are also ordered when a particular item is ordered.
- Step 3: Create a set to determine whether an order has the item that was selected in the parameter control.
- Step 4: Build the view to display which items are also contained in an order with the selected item.



Step 1 - Create Parameter

- 1.In the Create Parameter dialog box, do the following:
- a) Name the parameter. For this example, name the parameter Order Contains...
- b)For Data Type, select String.
- c)For Allowable Values, select List.
- d)In the **List of values** section, click **Clear All**, and then click **Add from Field> Sub Segment**. e)Click OK.
- 2.Right click the **Order Contains...**parameter, and then select **Show Parameter Control**.



Step 2 - Create Calculated fields

- 1. Select Analysis > Create Calculated Field.
- 2.Call it : Order Also Contains....
- 3.Under the text box, enter the following:
- IF [Sub Segment] <>[Order Contains] then [Sub Segment] end
- 4. Verify that the calculation is valid, and then click OK.
- 5.Create another calculated field by selecting **Analysis**> **Create Calculated Field**.
- 6.Call it Product Matches.
- 7. Under text box, enter the following:
- IF [Sub Segment] = [Order Contains...] THEN 1 END
- 8. Verify that the calculation is valid, and then click OK.



Step 3 - Create Set

- •Click the Order ID dimension down arrow in the Data pane, and then select Create > Set.
- •In the Name text box, enter "Order Has Selected Product".
- •On the Condition tab, select By field, and in the drop-down lists, make the following selections and entries to build the condition:
- -In the first drop-down list, select **Product Matches**.
- –In the second drop-down list, select Sum.
- -In the next drop-down list, select >=.
- -In the last text box, enter 1.
- -Click OK.



Step 4 - Build view

- 1.Drag Order Also Contains to the Columns shelf.
- 2.Drag **Order ID** to the **Rows** shelf. If a Warning dialog box appears, click **Add all members**.
- 3.On **Rows**, click the **Order ID** down arrow, and then select **Measure**> **Count** (**Distinct**).
- 4. Right-click the **Null** value on the x-axis, and then select **Hide**.
- 5. Drag the **Order Has Selected Product** set to the **Filters** shelf.
- 6.Click the swap button on the toolbar.