

Designing Interactive Reports in Power BI Desktop

Lab Time: 60 minutes

Lab Folder: C:\Student\Modules\04_Reports\Lab

Lab Overview: In this module you will continue to extend the Power BI Desktop project named **Wingtip Sales Analysis** that you have been working with over the last few labs. In this lab you will focus on designing additional report pages. After creating and designing the several new report pages in the project, you will then configure security roles in the project to enable row-level security. At the end of the lab, you will publish your report and its underlying dataset to the Power BI service. This final step will allow you to see how your report looks in the browser in the Power BI service and it will also give you a chance to experience how row-level security works in Power BI.

Lab Dependency: This lab assumes you have completed the previous lab titled **Modeling with Dimensional Hierarchies and Time Intelligence** in which you extended the PBIX project with a calendar table and additional measures. If you would like to begin work on this lab without completing the earlier lab, copy the lab solution file named **Wingtip Sales Analysis.pbix** which is located in the student folder at **C:\Student\Modules\03_DataModeling\Lab\Solution** into the folder at **C:\Student\Projects** using the Windows Explorer.

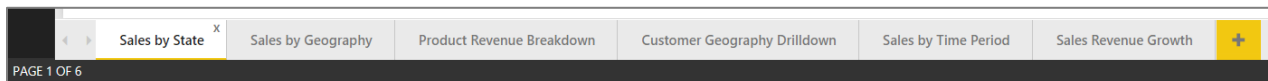
Exercise 1: Create the Sales Revenue Breakdown Report

In this exercise you will create the **Sales Revenue Breakdown** report to design a new report page that shows how sales revenue breaks down over the last 4 years in areas such as product category, customer type, sales region and purchase type.

1. Open the Power BI Desktop project named **Wingtip Sales Analysis.pbix**
 - a) Launch Power BI Desktop.
 - b) Open the Power BI Desktop project named **Wingtip Sales Analysis.pbix** from the previous lab located at the following path.

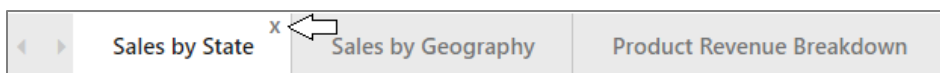
C:\Student\Projects\wingtip Sales Analysis.pbix

- c) When the project opens, click the report icon on the top of the sidebar to enter report view mode.
- d) You should see all the report pages you created in the previous lab.

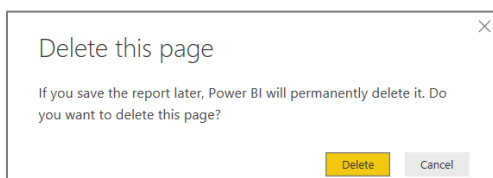


Many of the report pages you created in the previous lab allowed you to test your data modeling work, but the pages themselves are not that interesting. In the next step you will delete every report page except for the page named **Sales by Geography**.

2. Remove all the report pages except for the **Sales by Geography** page.
 - a) Remove the Sales by State page by clicking the X in the top right corner of its page tab.



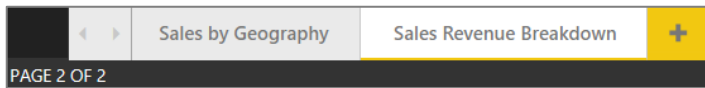
- b) When prompted with the Delete this page dialog, click the Delete button to confirm



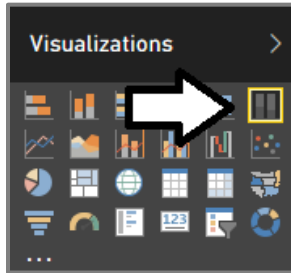
- c) Repeat the same steps to delete all pages in the report except for the page named **Sales by Geography**.



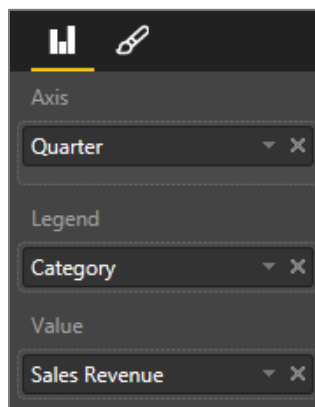
3. Create a new report page to the project and rename it to **Sales Revenue Breakdown**.



4. Add a new visual to the report to show sales revenue broken down by product category.
- Make sure the **Home** tab is active on the ribbon.
 - Click on the **New Visual** button to add a new visual to the page.
 - Click the **100% Stacked column chart** button in the **Visualizations** list to change the visualization type.



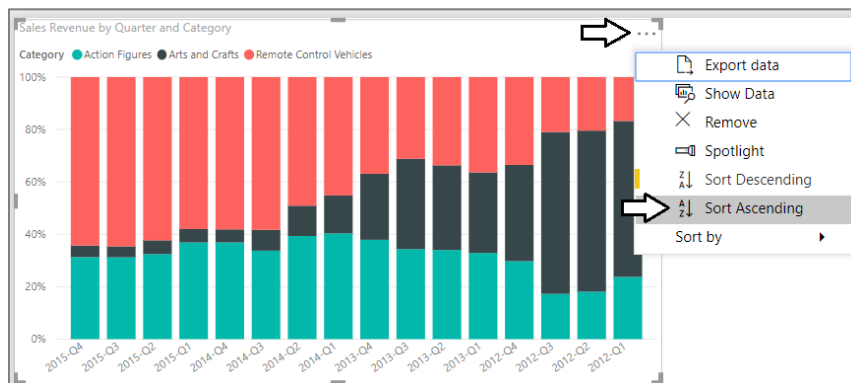
- Drag the **Quarter** column from the **Calendar** table in the **Fields** list and drop it into the **Axis** well in the **Visualizations** pane.
- Drag the **Category** column from the **Products** table and drop it into the **Legend** well in the **Visualizations** pane.
- Drag the **Sales Revenue** measure from the **Sales** table and drop it into the **Value** well in the **Visualizations** pane.



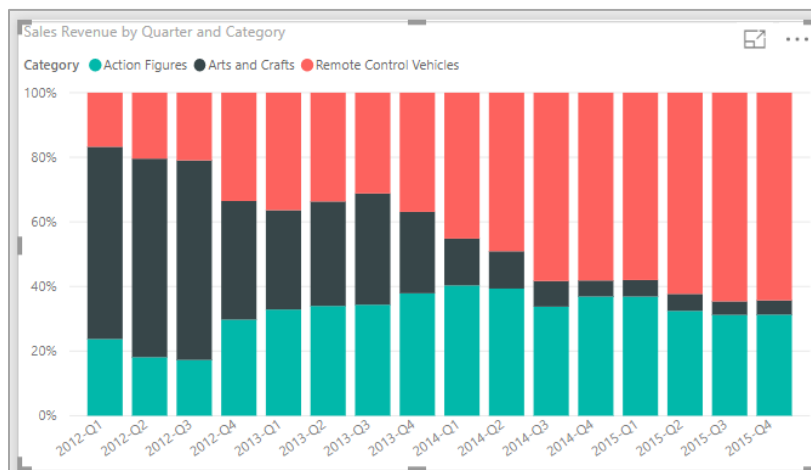
- Using the mouse, resize the visual to take up the entire top, left corner of the page.
- Change the visual sorting by dropping down the visual ellipse menu (...) and selecting **Sort by > Quarter**.



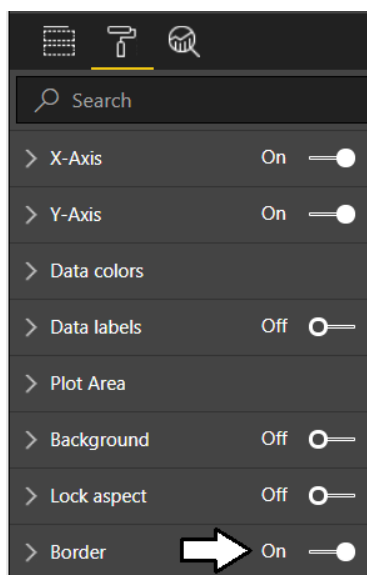
- i) Drop down the visual ellipse menu (...) again and select **Sort Ascending**.



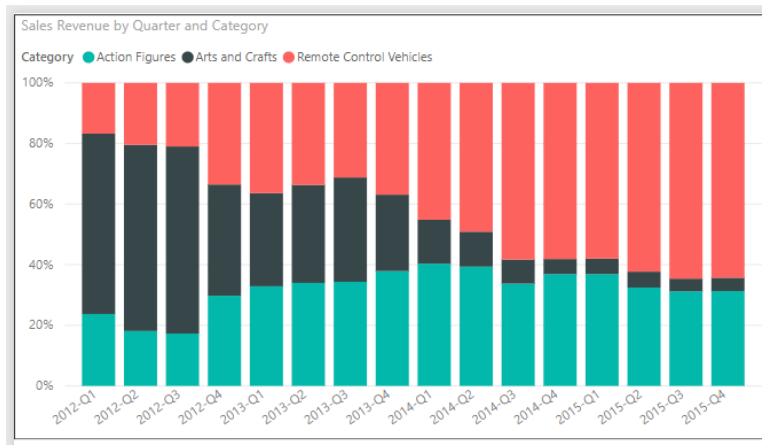
- j) Now you should see that the months on the X axis are displayed chronologically from left to right.



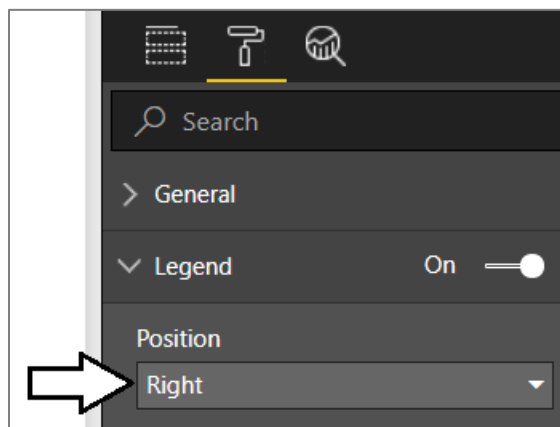
- k) Click on the **Edit Brush** icon in the **Visualizations** pane to view the Format properties for the visual. Locate the **Border** property and change its value to **On** as shown in the following screenshot.



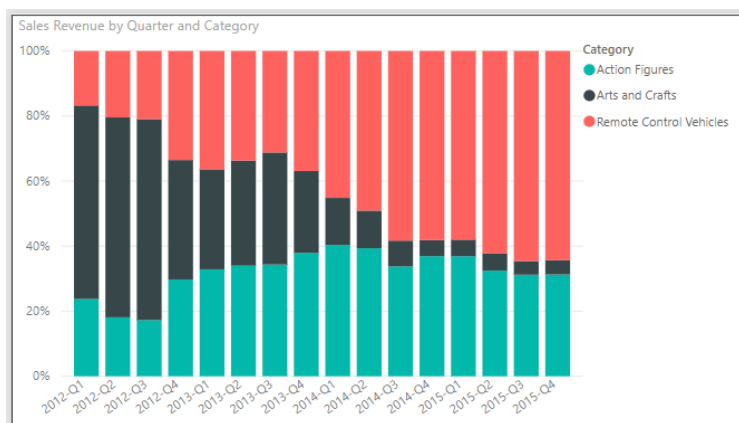
- l) Now the visual should display with a solid border.



- m) Modify the legend settings for the visual

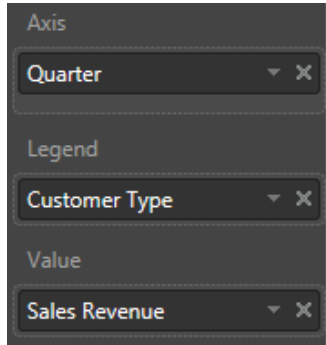


- n) Now it should look like this.

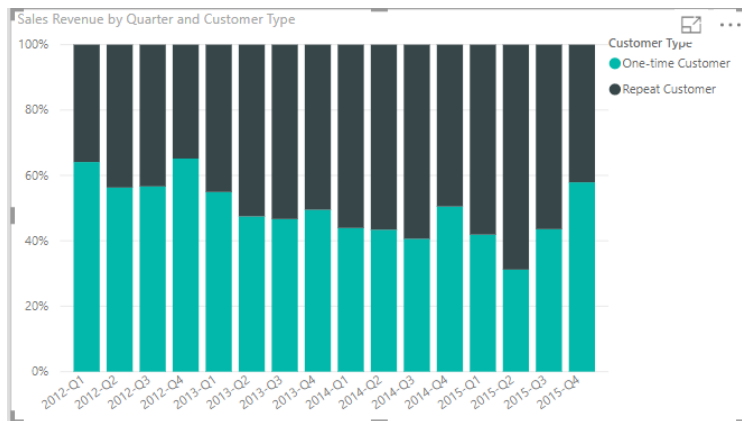


- o) Reposition the visual so it takes up the entire upper, left-hand corner of the page.
5. Create a second visual to display a breakdown of sales revenue by customer type.
- a) Select the existing visual and copy it to the Windows clipboard.
- b) Perform a paste operation to add a second copy of the visual to the report page.

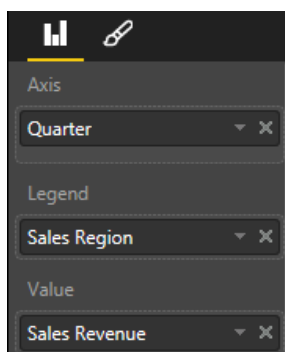
- c) Reposition the visual so it takes up the entire lower, left-hand corner of the page.
- d) Make sure the second visual is selected and examine its properties in the **Visualizations** pane.
- e) Remove the **Categories** column from the **Legend** well.
- f) Drag the **Customer Type** column from the **Customers** table and drop it into the **Legend** well in the **Visualizations** pane.



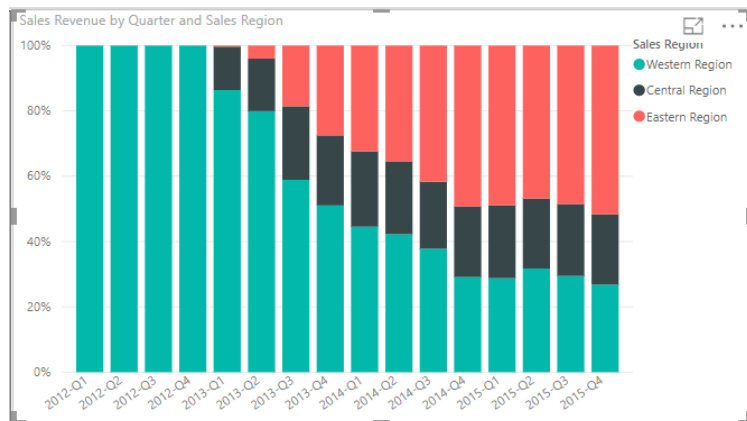
- g) The new visual should now match the that is visual shown in the following screenshot.



6. Create a third visual to display a breakdown of sales revenue by sales region.
- a) Select the first visual on the top, left of the page and copy it to the Windows clipboard.
 - b) Perform a paste operation to add a new copy of the visual to the report page.
 - c) Reposition the visual so it takes up the entire upper, right-hand corner of the page.
 - d) Make sure the third visual is selected and examine its properties in the **Visualizations** pane.
 - e) Remove the **Categories** column from the **Legend** well.
 - f) Drag the **Sales Region** column from the **Customers** table and drop it into the **Legend** well in the **Visualizations** pane.

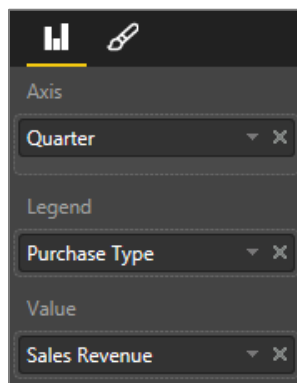


g) The new visual should now match the visual shown in the following screenshot.

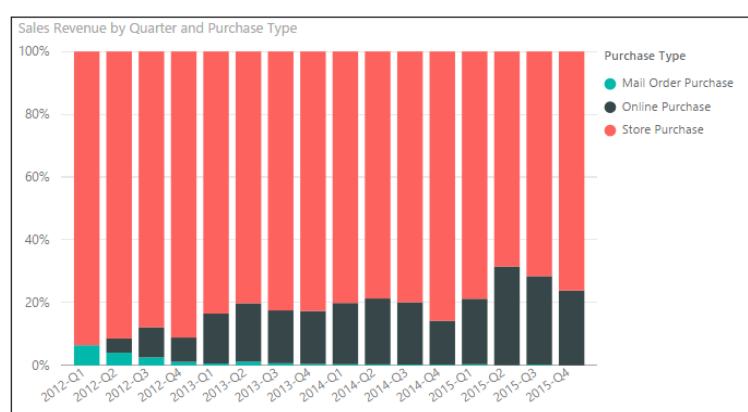


7. Create a fourth visual to display a breakdown of sales revenue by purchase type.

- Select the first visual on the top, left of the page and copy it to the Windows clipboard.
- Perform a paste operation to add a new copy of the visual to the report page.
- Reposition the visual so it takes up the entire lower, right-hand corner of the page.
- Make sure the new visual is selected and examine its properties in the **Visualizations** pane.
- Remove the **Categories** column from the **Legend** well.
- Drag the **Purchase Type** column from the **Purchases** table and drop it into the **Legend** well in the **Visualizations** pane.



g) The new visual should now match the visual shown in the following screenshot.



h) Make sure that the four visuals are laid out on the page as shown in the following screenshot.

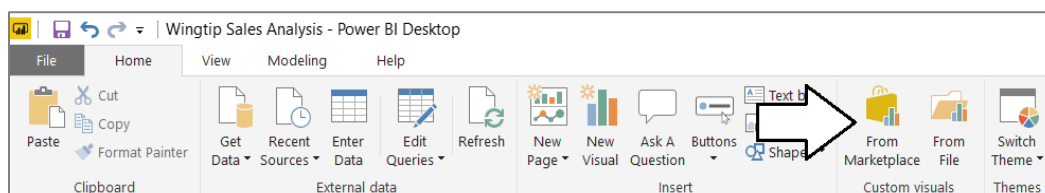


8. Save the work you have done by clicking the **Save** button in the upper left corner of the Power BI Desktop window.

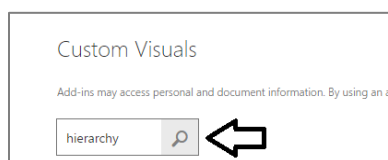
Exercise 2: Import a Custom Visual for Use in a Power BI Report

In this exercise you will download a custom visual from the Power BI custom visuals gallery and then you will import it into Power BI Desktop so you can use it in the report you have been designing. In particular, you will leverage the **Hierarchy Slicer** custom visual which provides the ability to drill down into a dimensional hierarchy such as **Product Category**.

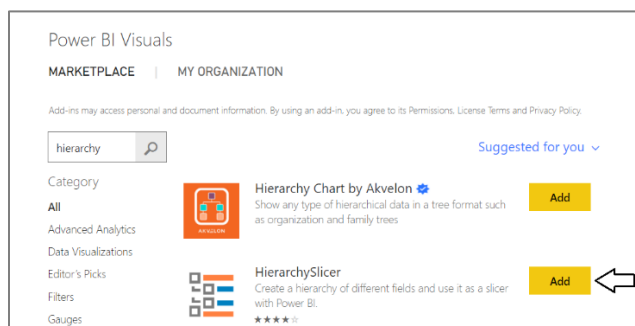
1. Download the custom visual from the custom visuals store.
 - a) On the Home tab of the ribbon, locate and click the **From Marketplace** button in the **Custom visuals** group.



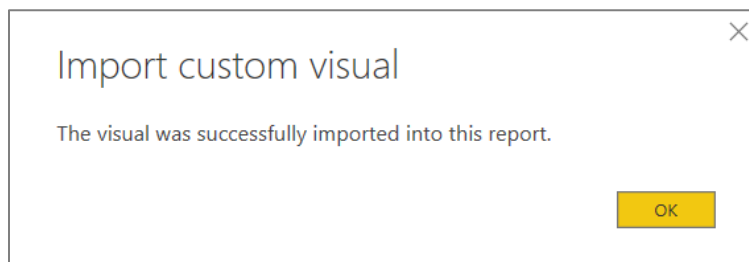
b) In the Custom Visual dialog, type hierarchy into the search box and click the search button.



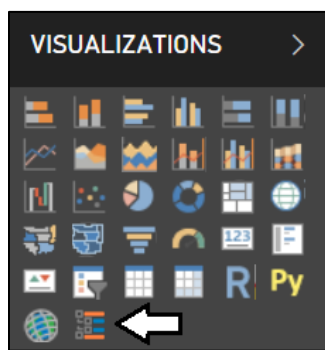
c) Locate the custom visual named **Hierarchy Slicer** and click **Add**.



- d) You will be prompted with a dialog that informs you the visual has been imported successfully. Click **OK** to dismiss the dialog.

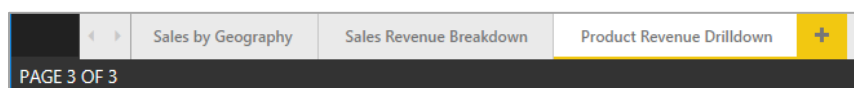


- e) Once the custom visual has been imported, you should be able to see a new button for it in the **Visualizations** list.

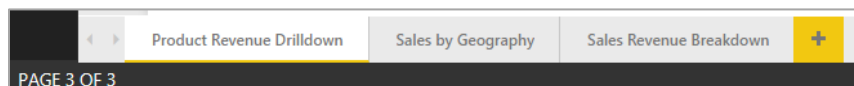


Now that you have imported the **Hierarchy Slicer** into the current project, the next step is to add this custom visual to a report.

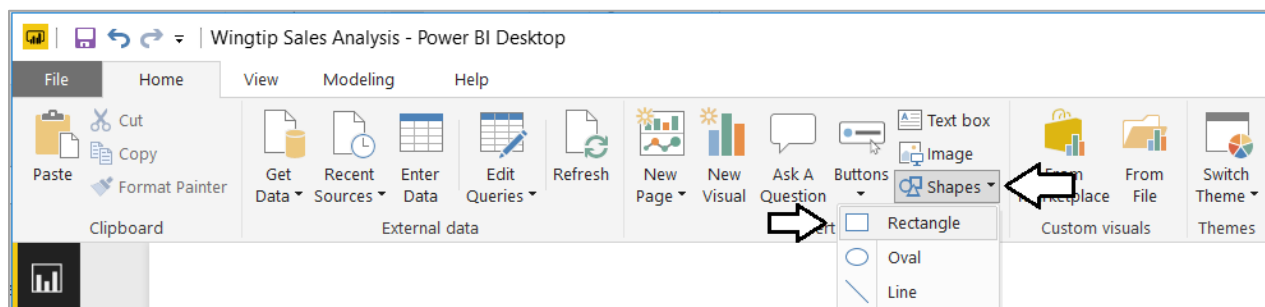
2. Create a new report page and rename it to **Product Revenue Drilldown**.
- On the page navigation menu, click the (+) button to create a new report page.
 - Rename the page to **Product Revenue Drilldown**.



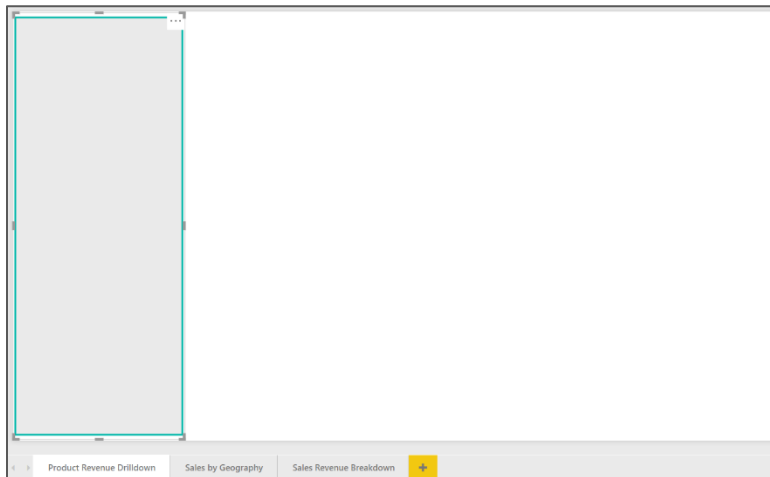
- c) Using the mouse, drag and drop the tab for the **Product Revenue Drilldown** page so it appears as the first page in the report.



3. Create a rectangle shape to provide background formatting for the report page.
- Drop down the **Shapes** menu and select the **Rectangle** command to add a new shape to the report.

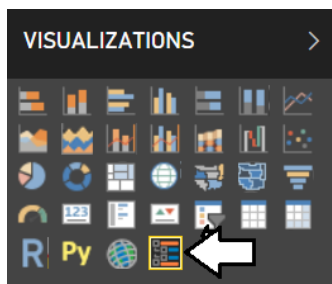


- b) Using the mouse, resize the rectangle shape to take up the full height of the report page and about 20% of the width.

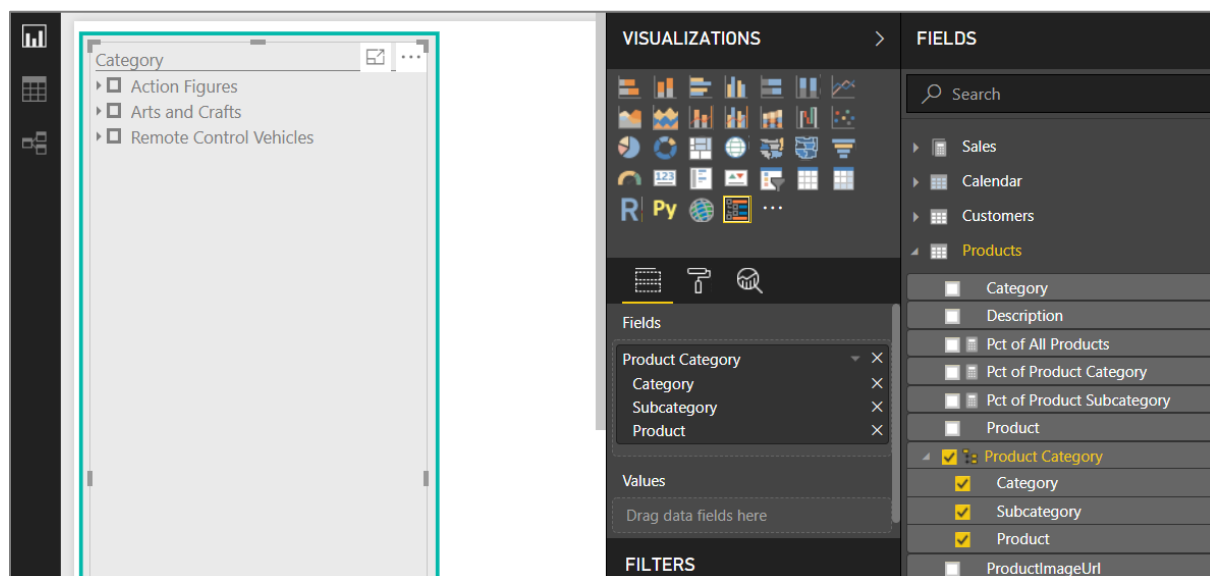


4. Create a new instance of the **Hierarchy Slicer** visual.

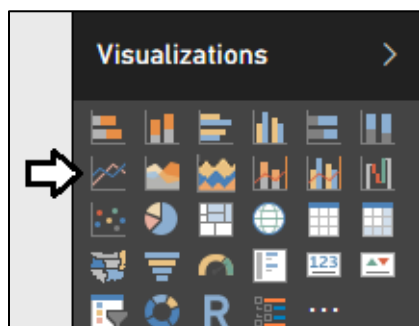
- a) Click the new button for the **Hierarchy Slicer** in the **Visualizations** list to create a new instance.



- b) Reposition the hierarchy slicer visual inside the rectangle shape on the left side of the page.
c) Click on the checkbox for the **Product Category** hierarchy to add it to the **Fields** well.
d) You should now see the top-level product categories displayed in the hierarchy slicer visual.



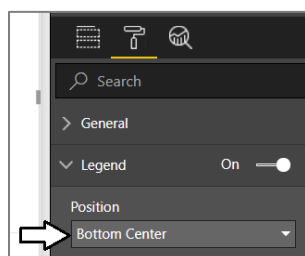
5. Create a new line chart visual to display sales revenue by sales region.
 - a) Make sure the hierarchy slicer is not selected.
 - b) Click on the Line chart button in the ribbon to create a new Line chart visual.



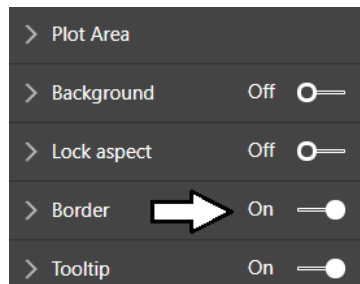
- c) Drag and drop the **Quarter** field from the **Calendar** table into the **Axis** well.
- d) Drag and drop the **Sales Revenue** field from the **Sales** table into the **Values** well
- e) Drag and drop the **Sales Region** field from the **Customers** table into **Legend** well
- f) Reposition the visual to so it takes up all the space in the page that is not already occupied by the hierarchy slicer visual.



- g) With the Line chart visual selected, navigate to the **Legend** section in the **Format** properties pane. Update the value of the **Position** property for the legend to **Bottom Center**.



- h) Locate the **Border** property at the bottom of the Format properties pane and set its value to **On**.

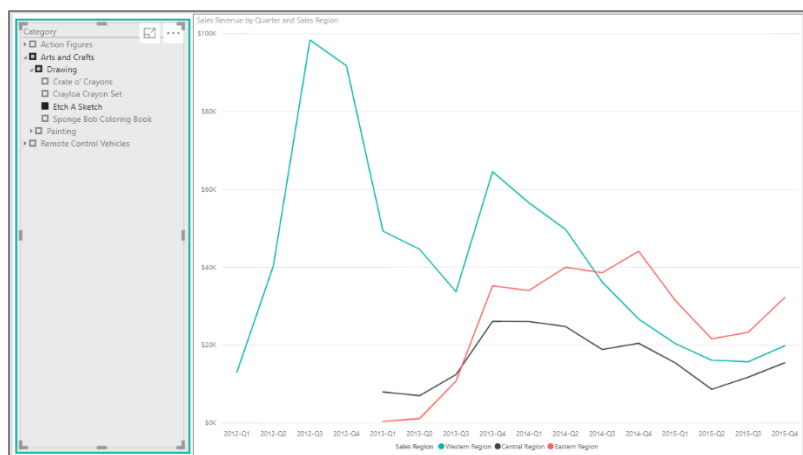


Now you have done all the work to create an interactive report page. Now it's time to test it out and see how it helps to analyze data.

6. Use the hierarchy slicer to analyze and drill down into sales data.
- Experiment by selecting nodes within the hierarchy slicer.
 - For example, select the node at **Remote Control Vehicles > Cars**.



- Inspect how sales compare between the categories of **Action Figures**, **Arts and Crafts** and **Remote Control Vehicles**.
- Drill down to the product level to inspect the month-to-month sales of individual products.
- Determine which products have been trending downwards in sales revenue over the last two years.



7. Save the work you have done by clicking the Save button in the upper left corner of the Power BI Desktop window.

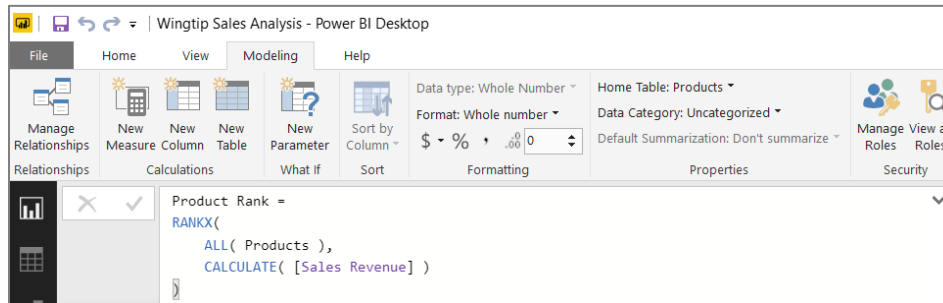
Exercise 3: Create the Top 5 Products Report

In this exercise you will create a measure named **Product Rank** that ranks products according to their total sales revenue. You will then work to create a report that displays the top 5 selling products. Along the way, you will design this report to be interactive allowing the user to filter on a specific year and/or a specific product category to see what products are the best sellers.

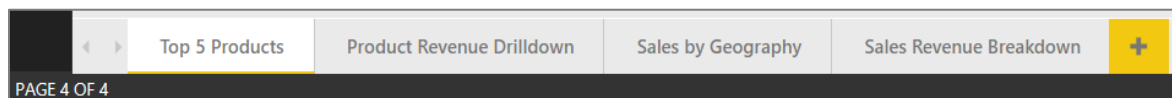
1. Create a new measure named **Product Rank** to determine the top selling products.
 - a) Navigate to data view.
 - b) Select the **Products** table from the **Fields** list.
 - c) Create a new measure by clicking the **New Measure** button in the ribbon.
 - d) Enter the following DAX expression into the formula bar to create the measure named **Product Rank**.

```
Product Rank =  
RANKX(  
    ALL( Products ),  
    CALCULATE( [Sales Revenue] )  
)
```

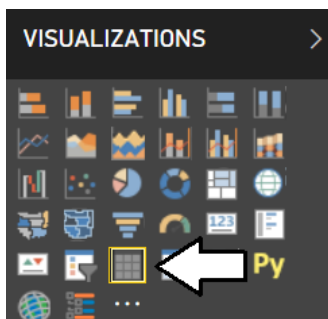
- e) Press the **ENTER** key to add the measure to the data model.
- f) Ensure the formatting for this measure is set to **Whole Number** as shown in the following screenshot.



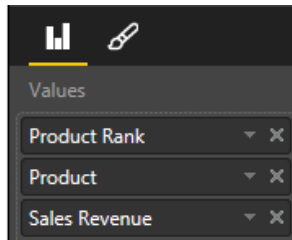
2. Create a new report page named **Top 5 Products**
 - a) Navigate to report view.
 - b) Create a new report page and rename it to **Top 5 Products**.
 - c) Using the mouse, drag the new page tab all the way to the left so it appears first in the page navigation menu.



3. Add a new table visual to display the top 5 products.
 - a) Click the **New Visual** button on the ribbon to add a new visual to the page.
 - b) Change the visual to a table by clicking the **Table** button in the **Visualizations** list.



- c) Drag and drop the **Product Rank** measure from the **Products** table into the **Values** well.
- d) Drag and drop the **Product** column from the **Products** table into the **Rows** well.
- e) Drag and drop the **Sales Revenue** measure from the **Sales** table into the **Rows** well.



- f) The new visual should now match the visual shown in the following screenshot.

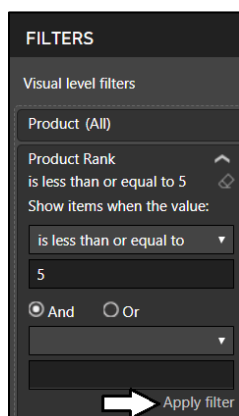
Product Rank	Product	Sales Revenue
20	Batman Action Figure	\$225,012
32	Black Power Ranger Action Figure	\$22,358
12	Captain America Action Figure	\$855,607
11	Crate o' Crayons	\$980,780
29	Crayloa Crayon Set	\$48,806
6	Easel with Supply Trays	\$1,711,137
10	Etch A Sketch	\$1,184,744
8	Flying Badger	\$1,516,623
1	Flying Squirrel	\$3,828,783

- g) Click on the **Product Rank** column header twice to sort the visual so the products with the lowest ranks are sorted to the top.

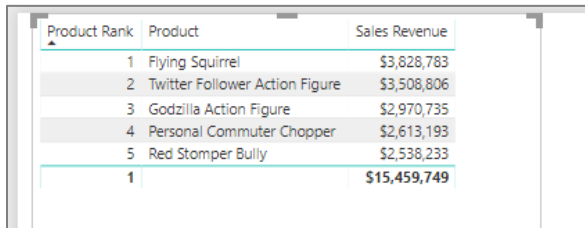


Product Rank	Product	Sales Revenue
1	Flying Squirrel	\$3,828,783
2	Twitter Follower Action Figure	\$3,508,806
3	Godzilla Action Figure	\$2,970,735
4	Personal Commuter Chopper	\$2,613,193
5	Red Stomper Bully	\$2,538,233
6	Easel with Supply Trays	\$1,711,137
7	Seal Team 6 Helicopter	\$1,680,878
8	Flying Badger	\$1,516,623
9	Indy Race Car	\$1,337,867
10	Etch A Sketch	\$1,184,744
11	Crate o' Crayons	\$980,780

- h) Inspect the **Visual level filters** well of the **Filters** section of the Field properties pane and locate **Product Rank**.
- i) Configure the **Product Rank** filter to only display products with a rank of 5 or lower as shown in the following screenshot and then click the **Apply Filter** link to apply the filter to the visual.

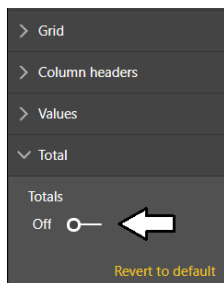


- j) Your visual should now display the top 5 selling products as shown in the following screenshot. You should be able to observe that the visual is displaying the **Totals** row at the bottom which needs to be removed.

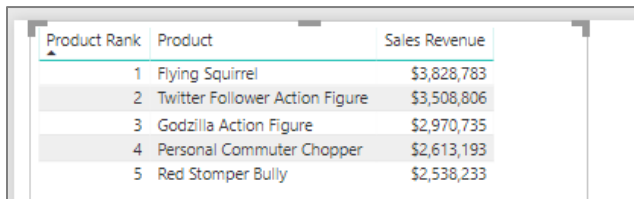


Product Rank	Product	Sales Revenue
1	Flying Squirrel	\$3,828,783
2	Twitter Follower Action Figure	\$3,508,806
3	Godzilla Action Figure	\$2,970,735
4	Personal Commuter Chopper	\$2,613,193
5	Red Stomper Bully	\$2,538,233
1		\$15,459,749

- k) Locate the **Totals** property for the table visual in the **General** section of the property sheet and set its value to **Off**.

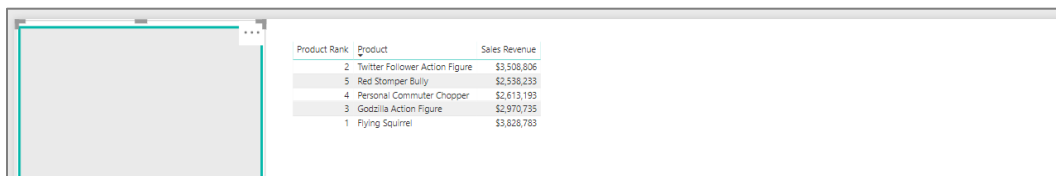


- l) Your top 5 products visual should now look better when it is displayed without the **Totals** row.

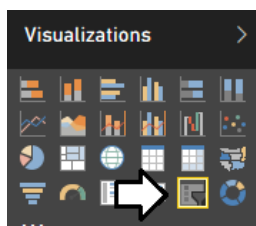


Product Rank	Product	Sales Revenue
1	Flying Squirrel	\$3,828,783
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5	Red Stomper Bully	\$2,538,233

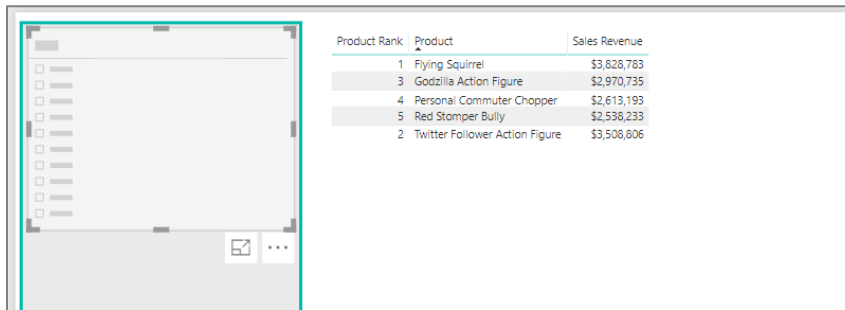
4. Create a rectangle shape to provide background formatting for the report page.
- Drop down the **Shapes** menu and select the **Rectangle** command to add a new shape to the report.
 - Using the mouse, resize the rectangle share to take up the full height of the report page and about 25% of the width.



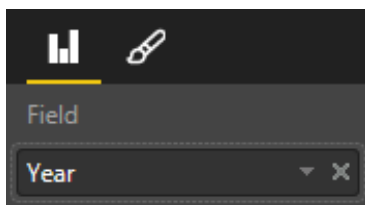
5. Add a new slicer visual to the page to filter the top 5 products visual by **Year**.
- Click the **New Visual** button on the ribbon to add a new visual to the page.
 - Change the visual to a slicer by clicking the Slicer button in the **Visualizations** list.



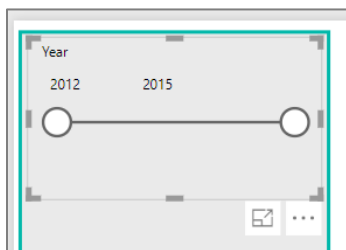
- c) Position the slicer on top of the rectangle.



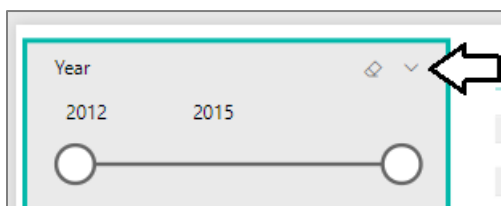
- d) Drag and drop the **Year** column from the **Sales** table into the **Values** well.



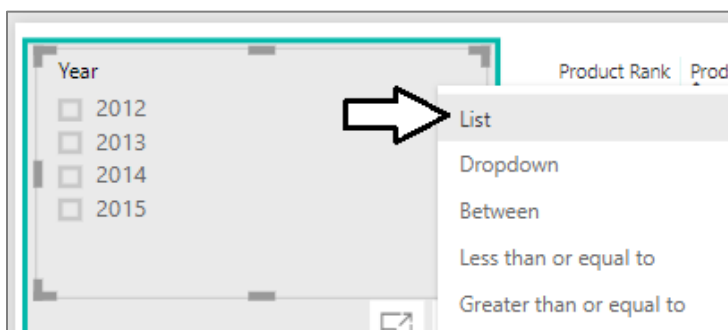
- e) The slicer visual will default to a user interface experience with slider since year is a whole number.



- f) Click the slicer dropdown menu at the top right of the slicer to change the user interface experience.

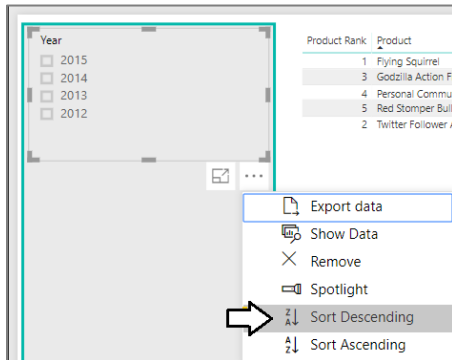


- g) Select the **List** option for the slicer's user interface experience.

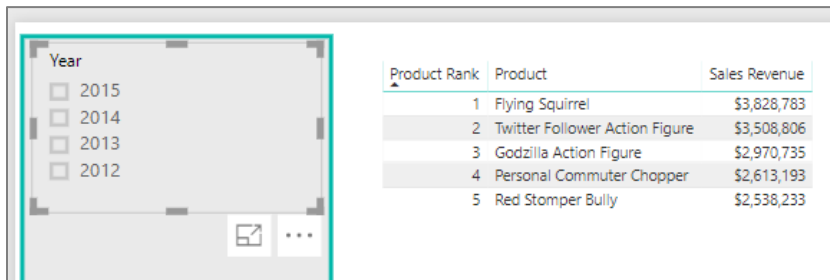


Now, that you have configured the slicer as a list, you will reverse the sort order so that later years are listed on top.

- h) Drop down use the standard visuals menu and select the **Sort Descending** command.



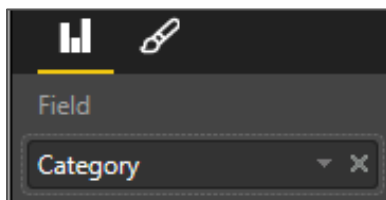
- i) The **Year** slicer visual should now show the latest year (i.e. 2015) at the top of the list of years.



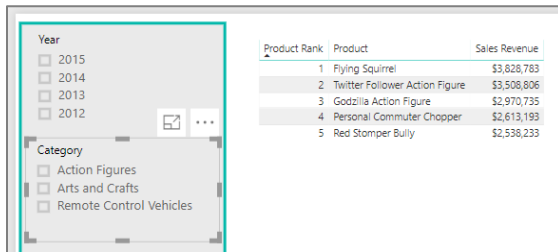
- j) Experiment using the **Year** slicer by selecting individual years. You should see that the top 5 products visual updates whenever you select a different year.



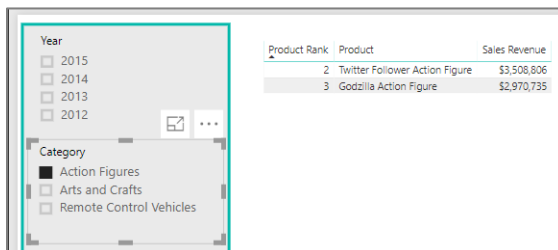
- k) When you are done, reset the Year slicer so that no year is selected.
6. Add a second slicer visual to the **Top 5 Products** page to filter by **Category**.
- Click the **New Visual** button on the ribbon to add a new visual to the page.
 - Change the visual to a slicer by clicking the Slicer button in the **Visualizations** list.
 - Drag and drop the **Category** column from the **Products** table into the **Values** well.



- d) Reposition the new visual to match the page layout shown in the following screenshot.



- e) Experiment using the **Category** slicer by selecting individual product categories. You should see that there is now a problem with the report because the visual with the top 5 products doesn't show 5 products.

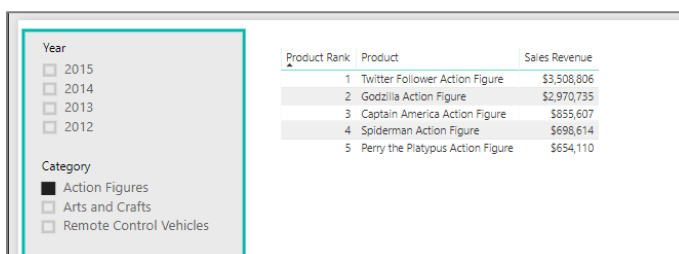


The problem you are facing here has to do with the manner in which the **Product Rank** measure is filtering during its evaluation. The problem is that the measure does not correctly filter by the product category column when determining the top 5 products. Therefore, you must modify the DAX expression for the **Product Rank** measure in order to calculate the top 5 selling products within a specific category when that category is selected in the slicer.

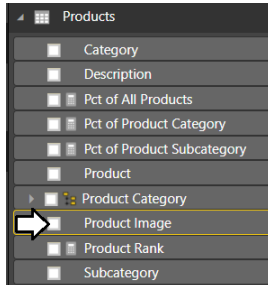
7. Modify the DAX expressions for the **Product Rank** measure to correct the filter problem with product category.
 - a) Navigate to data view.
 - b) Expand the **Products** table from the **Fields** list.
 - c) Select the **Product Rank** measure in the **Products** table so you can view and modify its DAX expression in the formula bar.
 - d) Modify the DAX expression for the **Product Rank** measure to match the following code listing.

```
Product Rank =
IF(
    HASONENVALUE(Products[Product]),
    RANKX(
        ALL( Products[Subcategory], Products[Product] ),
        CALCULATE( [Sales Revenue] )
    )
)
```

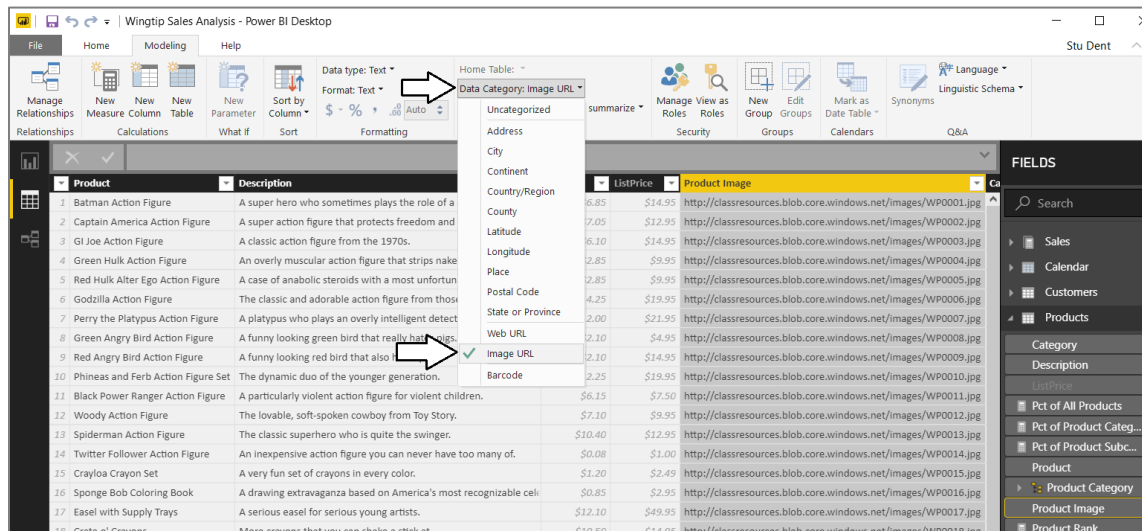
8. Test the changes you made to the **Product Rank** measure.
 - a) Navigate to report view.
 - b) Test the measure by selecting different categories using the **Category** slicer. At this point, the page filtering should be working correctly as you should see 5 top products when selecting a product category.



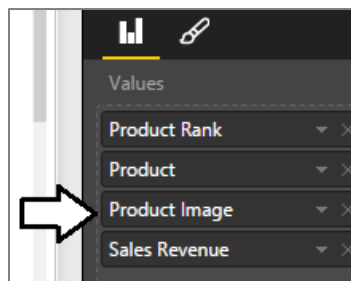
9. Add support the data model to provide a product image into the report.
 - a) Navigate to Data View and then inspect the fields inside the **Products** table.
 - b) Right-click on the **ProductImageUrl** field and select the **Rename** command.
 - c) Rename the field to the more user-friendly name of **Product Image**.







- d) Make sure you have the **Product Image** field selected in the **Fields** list.
- e) Navigate to the **Modeling** tab in the ribbon.
- f) Drop down the **Data Category** dropdown menu and select **Image URL**.



10. Add the product image to the report.
 - a) Return to report view.
 - b) Make sure the table visual is selected.
 - c) Drag and drop the **Product Image** field from the **Products** table into the **Values** well. When you add the **Product Image** field in the **Values** well, place it in between the **Product** field and the **Sales Revenue** field as shown in the following screenshot.



- d) When you see the effects your change, you will notice there's a problem because every product has a rank of 1. Therefore, the table visual now displays all 32 products instead of just 5 products which are the best sellers.






Product Rank	Product	Product Image	Sales Revenue
1	Batman Action Figure		\$225,012
1	Black Power Ranger Action Figure		\$22,358
1	Captain America Action Figure		\$855,607
1	GI Joe Action Figure		\$294,231

What's the problem here? It has to do with how the **RANKX** function works when the **Product Image** field is added into the filter context for calculations inside the table visual. In particular, the **RANKX** function is calculating the ranks separately for each group of products that share the same product image. Since no two products share the same product image, each product gets a ranking of 1.

11. Modify the DAX for the **Product Rank** measure to ignore the **Product Image** field whenever it's added to the filter context.
- Navigate to data view.
 - Expand the **Products** table from the **Fields** list.
 - Select the **Product Rank** measure in the **Products** table so you can view and modify its DAX expression in the formula bar.
 - Modify the DAX expression for the **Product Rank** measure by adding the **Product Image** field to the call to the **All** function.

```
Product Rank =
IF(
    HASONEVALUE(Products[Product]),
    RANKX(
        ALL( Products[Subcategory], Products[Product], Products[Product Image] ),
        CALCULATE( [Sales Revenue] )
    )
)
```

- Press Enter to save your DAX changes to the **Product Rank** field.
- Return to report view and inspect how your changes have affected the table visual with the top 5 products.
- You should see that now the product ranking is working the way it should even when there is a filter on product category.

Year	Product Rank	Product	Product Image	Sales Revenue
<input type="checkbox"/> 2015	1	Twitter Follower Action Figure		\$3,508,806
<input type="checkbox"/> 2014	2	Godzilla Action Figure		\$2,970,735
<input type="checkbox"/> 2013	3	Captain America Action Figure		\$855,607
<input type="checkbox"/> 2012	4	Spiderman Action Figure		\$698,614
	5	Perry the Platypus Action Figure		\$654,110

At this point the **Product Rank** measure is working correctly. However, you will update the DAX for this measure one more time to so you can the effects of a valuable DAX function named **AllSelected**.

12. Modify the DAX for the **Product Rank** measure to use the DAX **AllSelected** function.

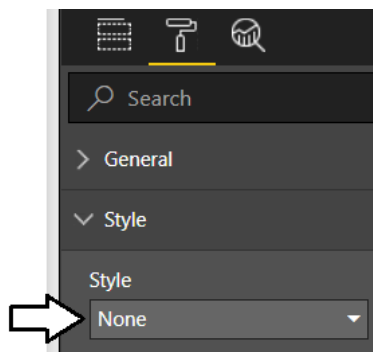
- Navigate to data view.
- Expand the **Products** table from the **Fields** list.
- Select the **Product Rank** measure in the **Products** table so you can view and modify its DAX expression in the formula bar.
- Modify the DAX expression for the **Product Rank** measure by adding the **Product Image** field to the call to the **All** function.

```
Product Rank =  
IF(  
    HASONEVALUE(Products[Product]),  
    RANKX(  
        ALLSELECTED(Products),  
        CALCULATE( [Sales Revenue] )  
    )  
)
```

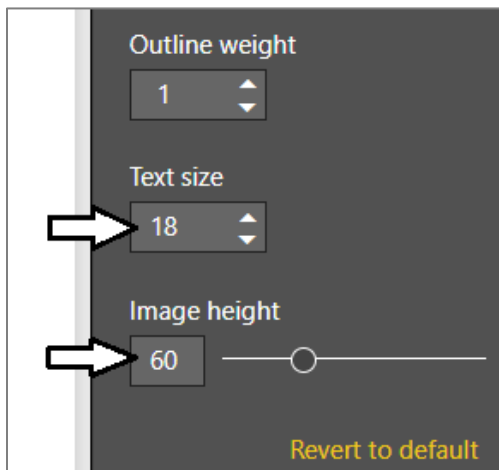
- Press Enter to save your DAX changes to the **Product Rank** field.
- Return to report view.
- You should see that now the product ranking is working the way it should even when there is a filter on product category.

13. Style the Top 5 Products table visual.

- In the **Table style** section, change the **Style** to **None**.

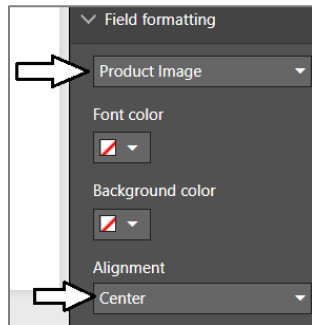


- Navigate to the **Grid** section in the **Format** properties pane.
- Set the **Text Size** to **14 pt**.
- Set the **Image Height** to **60**.



- Navigate to the **Grid** section in the **Format** properties pane.
- Set the **Field** to be formatted to **Product Image**.

- g) Set the field's **Alignment** property to **Center**.



- h) At this point, you are done formatting the top 5 products table

14. Experiment with the report interaction to drill into a year and category when determining the top 5 selling products.

Product Rank	Product	Product Image	Sales Revenue
1	Easel with Supply Trays		\$928,620
2	Crate o' Crayons		\$322,711
3	Etch A Sketch		\$293,175
4	Sponge Bob Coloring Book		\$51,466
5	Crayloa Crayon Set		\$12,868

15. Save the work you have done by clicking the **Save** button in the upper left corner of the Power BI Desktop window.

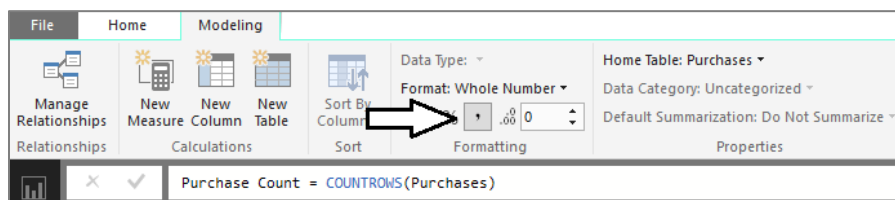
Exercise 4: Create the Top 10 Customers Report

In this exercise you will create a measure named **Customer Rank** that ranks customers according to their sales revenue. You will then work to create a report that displays the top 10 customers. You will also design this report to be interactive allowing the user to filter on a specific year or a specific sales region to see what products are the best sellers.

1. Create a new measure named **Purchase Count** to determine the number of purchases.
 - a) Navigate to data view.
 - b) Select the **Purchases** table from the **Fields** list.
 - c) Create a new measure by clicking the **New Measure** button in the ribbon.
 - d) Enter the following DAX expression into the formula bar to create the measure named **Purchase Count**.

Purchase Count = COUNTROWS(Purchases)

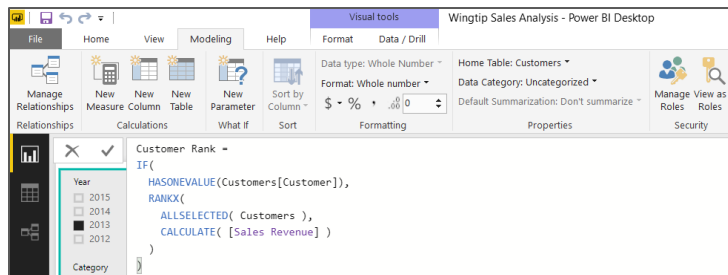
- e) Press the **ENTER** key to add the measure to the data model.
- f) Ensure the formatting for this measure is set to **Whole Number** as shown in the following screenshot. Also check the comma button to format values over 1000 with a comma separator.



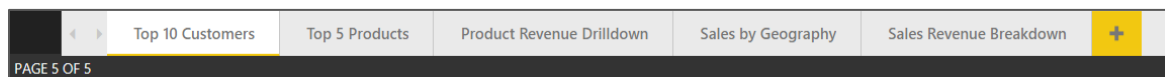
2. Create a new measure named **Customer Rank** to determine the top ranked customers with respect to sales revenue.
 - a) Navigate to data view if you are not already there.
 - b) Select the **Customers** table from the **Fields** list.
 - c) Create a new measure by clicking the **New Measure** button in the ribbon.
 - d) Enter to following DAX expression into the formula bar to create the measure named **Customer Rank**.

```
Customer Rank =  
IF(  
    HASONEVALUE(Customers[Customer]),  
    RANKX(  
        ALLSELECTED( Customers ),  
        CALCULATE( [Sales Revenue] )  
    )  
)
```

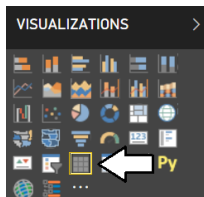
- e) Press the **ENTER** key to add the measure to the data model.
 - f) Ensure the formatting for this measure is set to **Whole Number** as shown in the following screenshot.



3. Create a new report page named **Top 10 Customers**.
 - a) Navigate to report view.
 - b) Create a new report page and rename it to **Top 10 Customers**.
 - c) Using the mouse, drag the new page tab all the way to the left so it appears first in the page navigation menu.

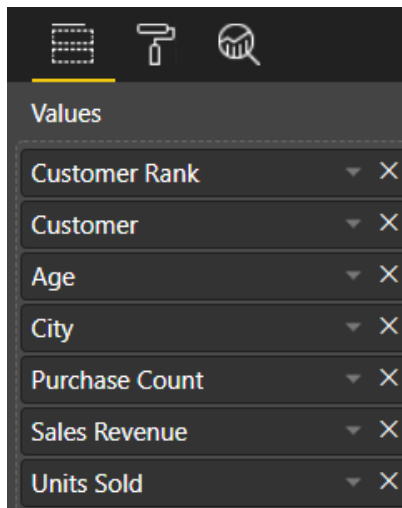


4. Add a new table visual to display the top 10 customers.
 - a) Click the **New Visual** button on the ribbon to add a new visual to the page.
 - b) Change the visual to a table by clicking the **Table** button in the **Visualizations** list.



- c) Drag and drop the **Customer Rank** measure from the **Customers** table into the **Values** well.
 - d) Drag and drop the **Customer** column from the **Customers** table into the **Values** well.
 - e) Drag and drop the **Age** column from the **Customers** table into the **Values** well.
 - f) Drag and drop the **City** column from the **Customers** table into the **Values** well.
 - g) Drag and drop the **Purchase Count** measure from the **Purchases** table into the **Values** well.
 - h) Drag and drop the **Sales Revenue** measure from the **Sales** table into the **Values** well.

- i) Drag and drop the **Units Sold** measure from the **Sales** table into the **Values** well.
- j) The **Values** well for your visual should match the following screenshot.



- k) The new table visual should now display as the visual shown in the following screenshot.

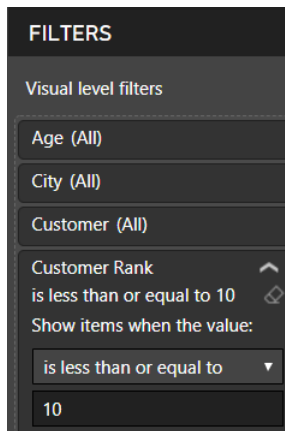
Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
57103	Aaron Beasley	88.00	Miami, FL	1	\$60	3
35049	Aaron Best	38.00	Princeton, NJ	1	\$234	33
50982	Aaron Blackwell	29.00	Austin, TX	1	\$104	8
35718	Aaron Boyle	67.00	Lafayette, LA	1	\$225	201
10970	Aaron Cannon	73.00	Fort Collins, CO	3	\$807	31
26816	Aaron Carver	38.00	Charlotte, NC	1	\$324	18
61719	Aaron Cobb	69.00	Houston, TX	1	\$22	1
32272	Aaron French	30.00	Asheville, NC	1	\$259	11
10694	Aaron Gould	72.00	Dorchester, MA	2	\$827	16
47950	Aaron Grant	75.00	Sacramento, CA	1	\$125	5
35985	Aaron Harris	63.00	San Antonio, TX	1	\$224	8
38362	Aaron Hodges	71.00	Miami, FL	1	\$200	2
26033	Aaron Knight	75.00	Houston, TX	1	\$335	14

- l) Click on the **Customer Rank** column header twice to sort the visual so the customers with the lowest rank and the greatest amount of sales revenue are sorted to the top.

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Erasmus Dunlap	49.00	Issaquah, WA	25	\$6,794	257
2	Salvatore Blake	52.00	Portland, OR	23	\$6,736	263
3	Ethel Hickman	44.00	Seattle, WA	16	\$6,515	205
4	Tonya McMillan	33.00	Seattle, WA	32	\$6,166	278
5	Roman Justice	70.00	San Jose, CA	21	\$5,813	221
6	Janie Deleon	28.00	Spokane, WA	23	\$5,610	237
7	Phoebe Molina	68.00	Salem, OR	30	\$5,584	302
8	Reyes Bass	55.00	Salt Lake City, UT	14	\$5,546	198
9	Courtney Hatfield	56.00	Napa, CA	14	\$5,414	188
10	Alonzo Knight	46.00	San Jose, CA	16	\$5,362	203
11	Faith Wheeler	81.00	El Paso, TX	11	\$5,346	132
12	Nell Daugherty	74.00	Vancouver, WA	16	\$5,325	186

- m) In the Field properties pane, locate the **Customer Rank** measure in **Visual level filters** well of the **Filters** section.

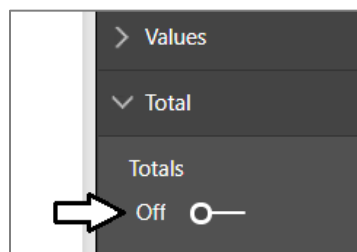
- n) Configure the **Customer Rank** filter to only display customers with a rank of 10 or lower as shown in the following screenshot and then click the **Apply Filter** link to apply the filter to the visual.



- o) Your visual should now display the top 10 customers as shown in the following screenshot. Note that the visual is still showing the **Totals** row at the bottom which needs to be removed.

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Erasmus Dunlap	49.00	Issaquah, WA	25	\$6,794	257
2	Salvatore Blake	52.00	Portland, OR	23	\$6,736	263
3	Ethel Hickman	44.00	Seattle, WA	16	\$6,515	205
4	Tonya McMillan	33.00	Seattle, WA	32	\$6,166	278
5	Roman Justice	70.00	San Jose, CA	21	\$5,813	221
6	Janie Deleon	28.00	Spokane, WA	23	\$5,610	237
7	Phoebe Molina	68.00	Salem, OR	30	\$5,584	302
8	Reyes Bass	55.00	Salt Lake City, UT	14	\$5,546	198
9	Courtney Hatfield	56.00	Napa, CA	14	\$5,414	188
10	Alonzo Knight	46.00	San Jose, CA	16	\$5,362	203
Total		50.10		214	\$59,540	2,352

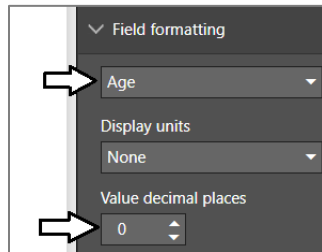
- p) Locate the **Totals** property in the **Total** section of the property sheet for the table visual and set it to a value of **Off**.



- q) Your visual should now look better when it is displayed without the **Totals** row.

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Erasmus Dunlap	49.00	Issaquah, WA	25	\$6,794	257
2	Salvatore Blake	52.00	Portland, OR	23	\$6,736	263
3	Ethel Hickman	44.00	Seattle, WA	16	\$6,515	205
4	Tonya McMillan	33.00	Seattle, WA	32	\$6,166	278
5	Roman Justice	70.00	San Jose, CA	21	\$5,813	221
6	Janie Deleon	28.00	Spokane, WA	23	\$5,610	237
7	Phoebe Molina	68.00	Salem, OR	30	\$5,584	302
8	Reyes Bass	55.00	Salt Lake City, UT	14	\$5,546	198
9	Courtney Hatfield	56.00	Napa, CA	14	\$5,414	188
10	Alonzo Knight	46.00	San Jose, CA	16	\$5,362	203

- r) Configure the **Field Formatting** of the **Age** field so it displays as a whole number by assigning the Value decimal places property with a value of **0**.



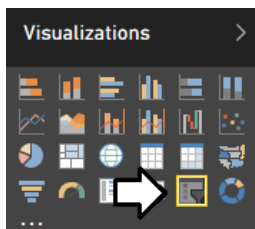
- s) The **Age** values should now display as whole numbers with no significant digits after the decimal point.

Customer Rank	Customer	Age	
1	Erasmus Dunlap	49	Issaquah, WA
2	Salvatore Blake	52	Portland, OR
3	Ethel Hickman	44	Seattle, WA
4	Tonya McMillan	33	Seattle, WA
5	Roman Justice	70	San Jose, CA

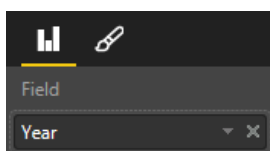
5. Create a rectangle shape to provide background formatting for the report page.
- Drop down the **Shapes** menu and select the **Rectangle** command to add a new shape to the report.
 - Using the mouse, resize the rectangle share to take up the full height of the report page and about 25% of the width.

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Erasmus Dunlap	49	Issaquah, WA	25	\$6,794	257
2	Salvatore Blake	52	Portland, OR	23	\$6,736	263
3	Ethel Hickman	44	Seattle, WA	16	\$6,515	205
4	Tonya McMillan	33	Seattle, WA	32	\$6,166	278
5	Roman Justice	70	San Jose, CA	21	\$5,813	221
6	Janie Deleon	28	Spokane, WA	23	\$5,610	237
7	Phoebe Molina	68	Salem, OR	30	\$5,584	302
8	Reyes Bass	55	Salt Lake City, UT	14	\$5,546	198
9	Courtney Hatfield	56	Napa, CA	14	\$5,414	188
10	Alonzo Knight	46	San Jose, CA	16	\$5,362	203

6. Add a new slicer visual to the page to filter the top 10 customers visual by **Year**.
- Click the **New Visual** button on the ribbon to add a new visual to the page.
 - Change the visual to a slicer by clicking the Slicer button in the **Visualizations** list.



- c) Drag and drop the **Year** column from the **Sales** table into the **Values** well.



The slicer should be initialized with a slider because the **Year** field is a whole number.

- d) Go through the same set of steps that you did with the Year slider on the Top 5 Products page so that it displays as a list slicer with the more recent years on top as shown in the following screenshot.



The screenshot shows a slicer for the 'Year' field with a list of years: 2015, 2014, 2013, and 2012. The table displays the top 10 customers for the selected year (2015).

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Erasmus Dunlap	49	Issaquah, WA	25	\$6,794	257
2	Salvatore Blake	52	Portland, OR	23	\$6,736	263
3	Ethel Hickman	44	Seattle, WA	16	\$6,515	205
4	Tonya McMillan	33	Seattle, WA	32	\$6,166	278
5	Roman Justice	70	San Jose, CA	21	\$5,813	221
6	Janie Deleon	28	Spokane, WA	23	\$5,610	237
7	Phoebe Molina	68	Salem, OR	30	\$5,584	302
8	Reyes Bass	55	Salt Lake City, UT	14	\$5,546	198
9	Courtney Hatfield	56	Napa, CA	14	\$5,414	188
10	Alonzo Knight	46	San Jose, CA	16	\$5,362	203

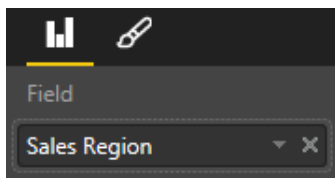
- e) Try using the slicer by selecting individual years. You should see that the visual with the top 10 customers list changes when you select a different year.



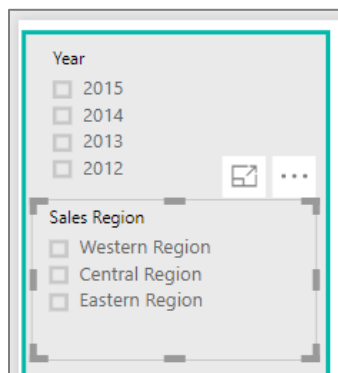
The screenshot shows the same slicer and table, but with the year 2012 selected. The table displays the top 10 customers for 2012.

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Tonya McMillan	33	Seattle, WA	20	\$3,884	182
2	Phoebe Molina	68	Salem, OR	17	\$3,567	196
3	Dorothy Richard	65	Folsom, CA	13	\$3,481	132
4	Celia Lambert	28	Napa, CA	14	\$3,419	168
5	Karia Orr	49	Salem, OR	14	\$3,044	156
6	Alexis Salinas	75	Salem, OR	16	\$3,005	151
7	Jackie Osborne	29	Sacramento, CA	12	\$2,992	130
8	Marcus Morin	63	Portland, OR	14	\$2,840	172
9	Jerry Barker	74	Albany, OR	14	\$2,785	165
10	Colton Weber	63	Napa, CA	14	\$2,749	124

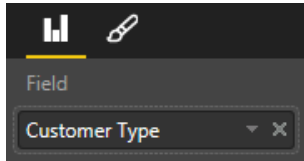
7. Add a second slicer visual to filter the top 10 customers visual by **Sales Region**.
- Click the **New Visual** button on the ribbon to add a new visual to the page.
 - Change the visual to a slicer by clicking the Slicer button in the **Visualizations** list.
 - Drag and drop the **Sales Regions** column from the **Customers** table into the **Values** well.



- d) Reposition the new visual to match the page layout shown in the following screenshot.



8. Add a third slicer visual to filter the top 10 customers visual by **Customer Type**.
- Click the **New Visual** button on the ribbon to add a new visual to the page.
 - Change the visual to a slicer by clicking the Slicer button in the **Visualizations** list.
 - Drag and drop the **Customer Type** column from the **Customers** table into the **Values** well.

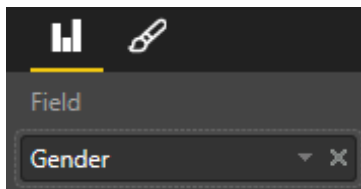


- d) Reposition the new visual to match the page layout shown in the following screenshot.

A screenshot of the Power BI report showing the top 10 customers table. The table is filtered by Year (2012-2015), Sales Region (Western, Central, Eastern), and Customer Type (One-time, Repeat). The table has columns: Customer Rank, Customer, Age, City, Purchase Count, Sales Revenue, and Units Sold.

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Erasmus Dunlap	49	Issaquah, WA	25	\$6,794	257
2	Salvatore Blake	52	Portland, OR	23	\$6,736	263
3	Ethel Hickman	44	Seattle, WA	16	\$6,515	205
4	Tonya McMillan	33	Seattle, WA	32	\$6,166	278
5	Roman Justice	70	San Jose, CA	21	\$5,813	221
6	Janie Deleon	28	Spokane, WA	23	\$5,610	237
7	Phoebe Molina	68	Salem, OR	30	\$5,584	302
8	Reyes Bass	55	Salt Lake City, UT	14	\$5,546	198
9	Courtney Hatfield	56	Napa, CA	14	\$5,414	188
10	Alonzo Knight	46	San Jose, CA	16	\$5,362	203

9. Add a fourth slicer visual to filter the top 10 customers visual by **Gender**.
- Click the **New Visual** button on the ribbon to add a new visual to the page.
 - Change the visual to a slicer by clicking the Slicer button in the **Visualizations** list.
 - Drag and drop the **Gender** column from the **Customers** table into the **Values** well.



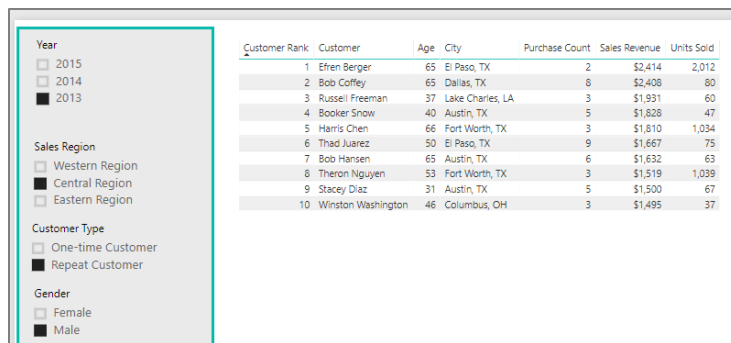
- d) Reposition the new visual to match the page layout shown in the following screenshot.

A screenshot of the Power BI report showing the top 10 customers table. The table is filtered by Year (2012-2015), Sales Region (Western, Central, Eastern), Customer Type (One-time, Repeat), and Gender (Female, Male). The table has columns: Customer Rank, Customer, Age, City, Purchase Count, Sales Revenue, and Units Sold.

Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Erasmus Dunlap	49	Issaquah, WA	25	\$6,794	257
2	Salvatore Blake	52	Portland, OR	23	\$6,736	263
3	Ethel Hickman	44	Seattle, WA	16	\$6,515	205
4	Tonya McMillan	33	Seattle, WA	32	\$6,166	278
5	Roman Justice	70	San Jose, CA	21	\$5,813	221
6	Janie Deleon	28	Spokane, WA	23	\$5,610	237
7	Phoebe Molina	68	Salem, OR	30	\$5,584	302
8	Reyes Bass	55	Salt Lake City, UT	14	\$5,546	198
9	Courtney Hatfield	56	Napa, CA	14	\$5,414	188
10	Alonzo Knight	46	San Jose, CA	16	\$5,362	203

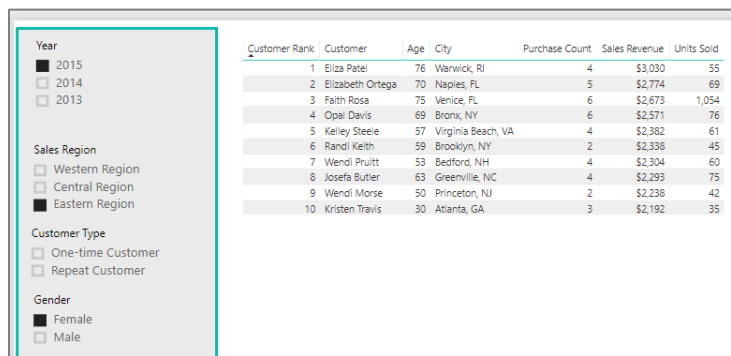
10. Now interact with the slicers on the page to answer the following questions.

a) Who were the top 10 customers in 2013 who were repeat male customers living in the Central Region?



Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Efren Berger	65	El Paso, TX	2	\$2,414	2,012
2	Bob Coffey	65	Dallas, TX	8	\$2,408	80
3	Russell Freeman	37	Lake Charles, LA	3	\$1,931	60
4	Booker Show	40	Austin, TX	5	\$1,828	47
5	Harris Chen	66	Fort Worth, TX	3	\$1,810	1,034
6	Thad Juevez	50	El Paso, TX	9	\$1,667	75
7	Bob Hansen	65	Austin, TX	6	\$1,632	63
8	Theron Nguyen	53	Fort Worth, TX	3	\$1,519	1,039
9	Stacey Diaz	31	Austin, TX	5	\$1,500	67
10	Winston Washington	46	Columbus, OH	3	\$1,495	37

b) Who were the top 10 Female customers from the Eastern Region in 2015?



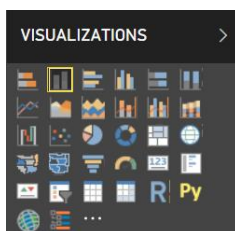
Customer Rank	Customer	Age	City	Purchase Count	Sales Revenue	Units Sold
1	Eliza Patel	76	Warwick, RI	4	\$3,030	55
2	Elizabeth Ortega	70	Naples, FL	5	\$2,774	69
3	Faith Rosa	75	Venice, FL	6	\$2,673	1,054
4	Opal Davis	69	Bronx, NY	6	\$2,571	76
5	Kelley Steele	57	Virginia Beach, VA	4	\$2,382	61
6	Randi Keith	59	Brooklyn, NY	2	\$2,338	45
7	Wendi Pruitt	53	Bedford, NH	4	\$2,304	60
8	Josefa Butler	63	Greenville, NC	4	\$2,293	75
9	Wendi Morse	50	Princeton, NJ	2	\$2,238	42
10	Kristen Travis	30	Atlanta, GA	3	\$2,192	35

c) Clear the filter on all the slicers on the page so the table shows results for all sales.

11. Add a new bar chart to show the sales revenue breakdown for the top 10 customers.

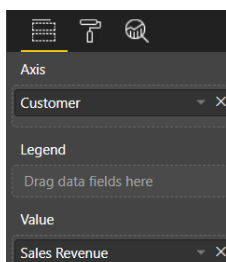
a) Click the **New Visual** button on the **Home** tab of the ribbon to add a new visual to the **Top 10 Customers** page.

b) Change the visual type to a **Stacked column chart** by clicking the second button in the **Visualizations** list.



c) Drag and drop the **Customer** column from the **Customers** table into the **Axis** well.

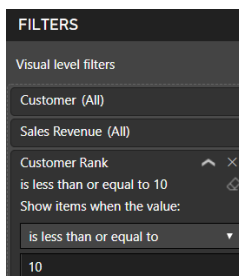
d) Drag and drop the **Sales Revenue** measure from the **Sales** table into the **Values** well.



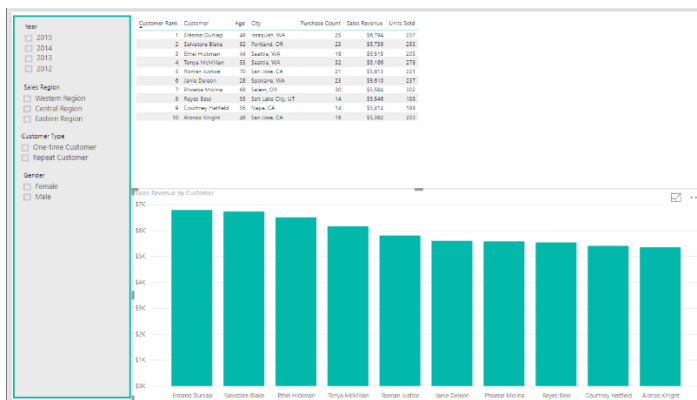
- e) At this point, your column chart visual should match the one shown in the following screenshot.



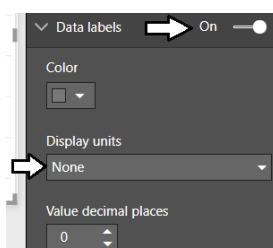
- f) Drag and drop the **Customer Rank** measure from the **Customers** table into **Visual level filters** well of the **Filters** section.
- g) Configure the **Customer Rank** filter to only display customers with a rank of 10 or lower as shown in the following screenshot and then click the **Apply Filter** link to apply the filter to the visual.



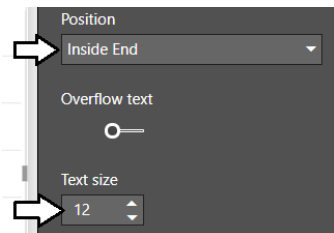
- h) Resize the column chart visual so it takes up the remaining width of the report page so it matches the following screenshot.



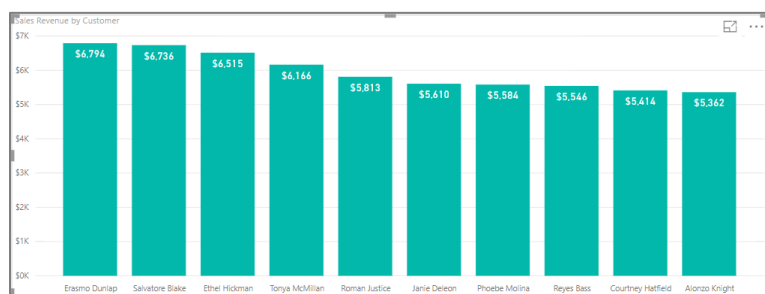
- i) Add a small bit of formatting by selecting the bar chart and then changing the **Data labels** property setting from **Off** to **On**.



- j) Update the **Position** property to **Inside End** and the **Text size** property to **12**.

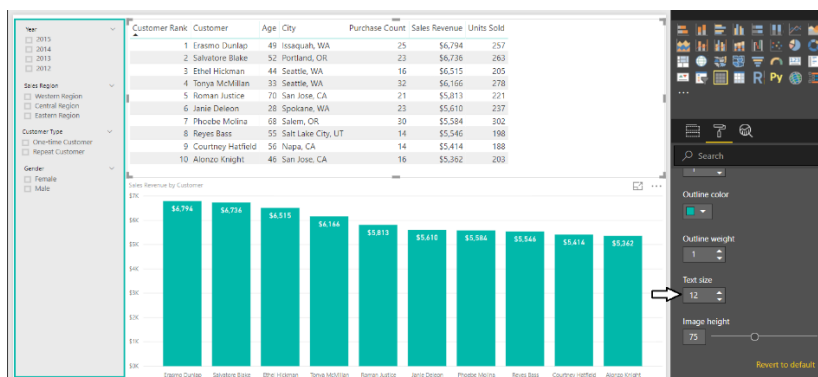


- k) Now the visual should display an individual sales revenue total for each of the top 10 customers.



12. Make two more changes to the formatting of the **Top 10 Customers** page.

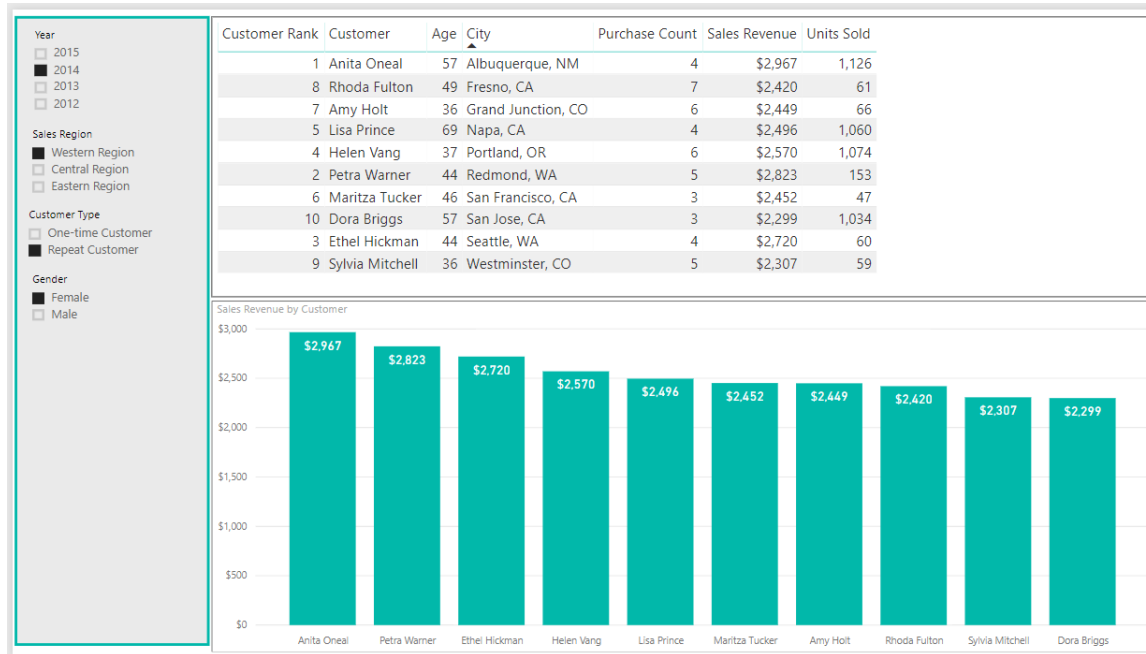
- a) Increase the font size of the table visual by modifying the **Text size** property in the **Grid** section to a value of **12**.



- b) Set the **Border** property to **On** for both the table visual and the column chart visual to match the following screenshot.



13. Test your work by using the four slicers to select different combinations of years, sales region, customer type and gender. Both the table and the bar chart with the top 10 customers should update together and stay in sync as you change the filter selection.

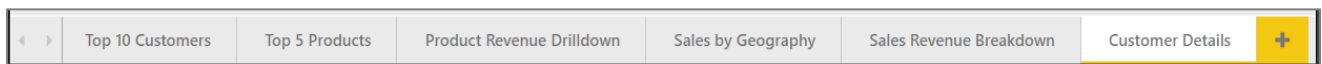


14. Save the work you have done by clicking the **Save** button in the upper left corner of the Power BI Desktop window.

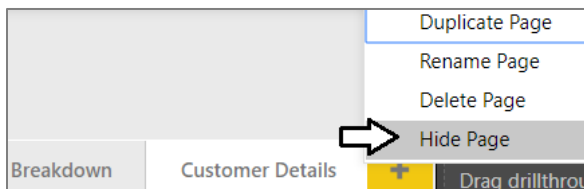
Exercise 5: Create a Drillthrough Page to Display Customer Details

In this exercise you will create and configure a drillthrough page to show the details of a single customer at a time.

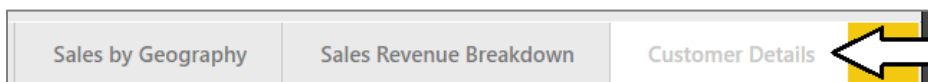
- Create a new hidden report page named **Customer Details** to serve as a drillthrough page.
 - Navigate to report view.
 - Create a new report page and rename it to **Customer Details**.



- Right-click on the **Customer Details** page tab and select the **Hide Page** menu command.

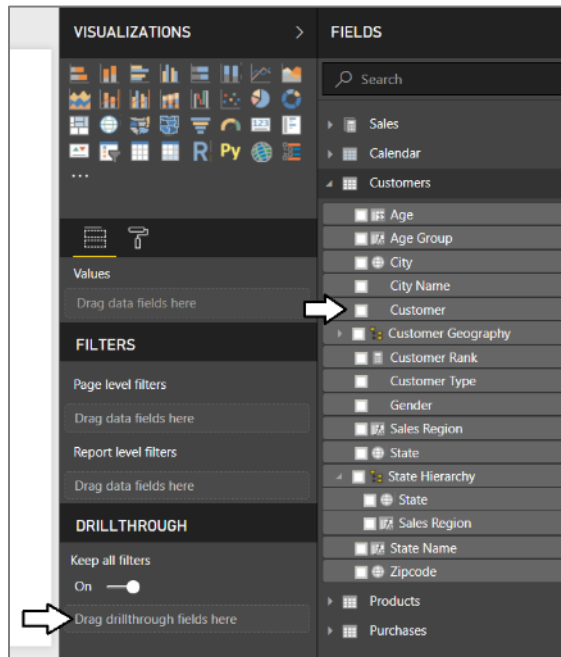


- The page tab for the Customer Details pages should be dimmed indicating that it is a hidden page.

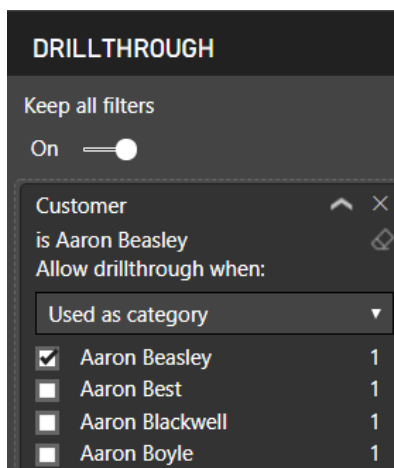


Remember that reports are always in edit mode when you're working in Power BI Desktop. Therefore, a hidden page is not totally hidden. However, when the report is accessed through browser in the default read-only view, the page will be completely hidden.

2. Configure the **Customer Details** page to be a drillthrough page.
 - a) Before you add any visuals, inspect the **Properties** pane for the **Customer Details** page.
 - b) Locate the **DRILLTHROUGH** section underneath the **FILTERS** section.
 - c) Drag and drop the **Customer** field from the **Customers** table into the well inside the **DRILLTHROUGH** section.



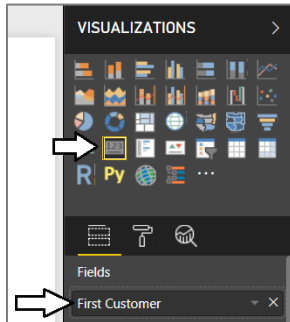
- d) Select a drillthrough filter setting by checking the checkbox for the first customer named **Aaron Beasley**.



- e) When you configured the page as a drillthrough page, you should be able to see that Power BI Desktop has automatically added a back button to the top, left corner of the page.



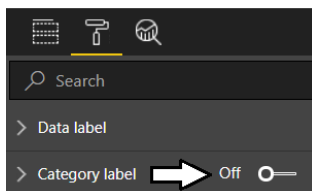
3. Add a card visual to the **Customer Details** drillthrough page to display the customer name.
 - a) Add a new **Card** visual to the page.
 - b) Drag the **Customer** field from the **Customers** table inside the **Fields** well.
 - c) The **Fields** well should now show **First Customer**.



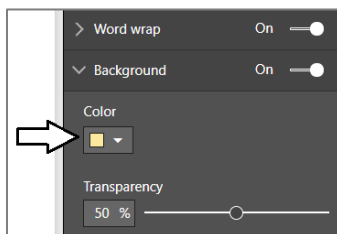
- d) The Card visual should now display the customer name and the field name below.



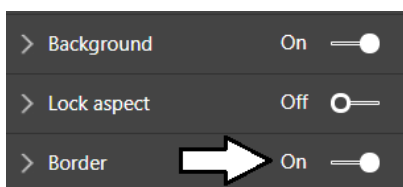
- e) In the **Format** properties pane, set **Category label** property to Off.



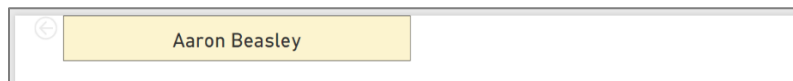
- f) Set the **Color** property in the **Background** section to light yellow.



- g) Set the **Border** property to **On**.

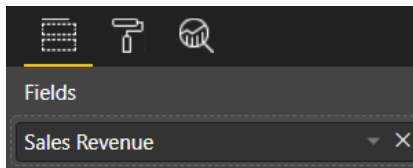


- h) The Card visual should now appear like the one shown in the following screenshot.

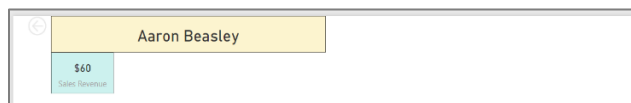


4. Add a few more card visuals to show more customer details.

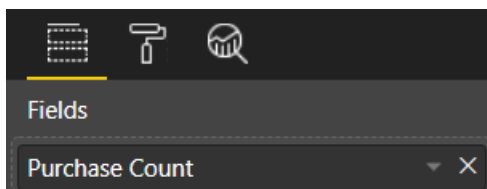
- a) Add a second card visual based on the **Sales Revenue** field.



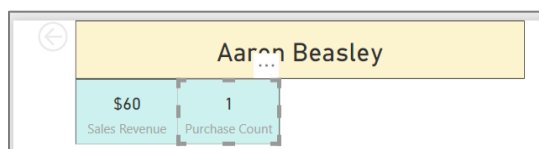
- b) Reduce the font size of the new card to **18** and make the background color light green.
c) Reposition the new Card visual underneath the Card with the customer name as shown in the following screenshot.



- d) Copy and paste the **Sales Revenue** card and change the field used by the new Card to **Purchase Count**.



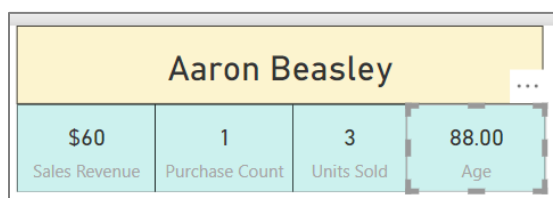
- e) Reposition the **Purchase Count** card as shown in the following screenshot.



- f) Copy and paste the card again to create a new card based on **Units Sold** as shown in the following screenshot.

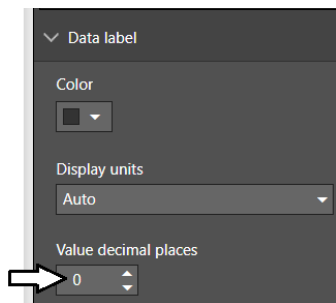


- g) Copy and paste the card again to create a new card based on **Age** as shown in the following screenshot..

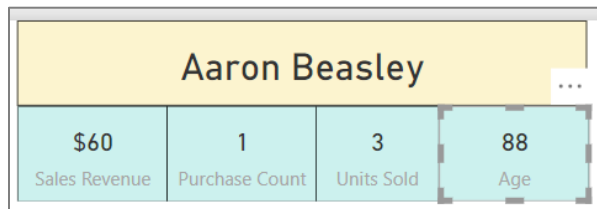


Note that **Age** value is being display with two significant digits after the decimal point. You will now configure the card showing the Age field to display as a whole number instead of as a floating point number..

- h) Modify the **Value decimal places** property of the Age card to remove any zeros after the decimal point.

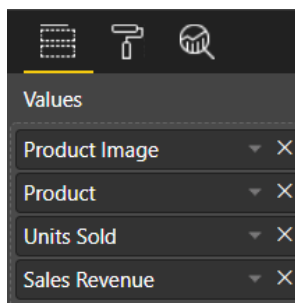


- i) **Age** should now be displayed as a whole number without any significant digit after the decimal point.





5. Add a new table visual to display the products that a customer has purchased.

- a) Add a new table visual to the report.
- b) Add the following fields to the **Values** well of the table visual.
- i) **Product Image**
 - ii) **Product**
 - iii) **Units Sold**
 - iv) **Sales Revenue**

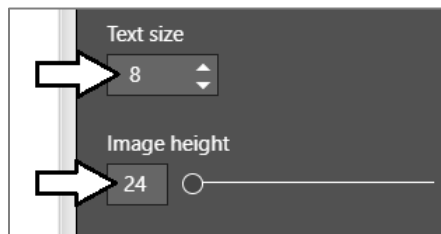


- c) Your table visual should appear like the one shown in the following screenshot/

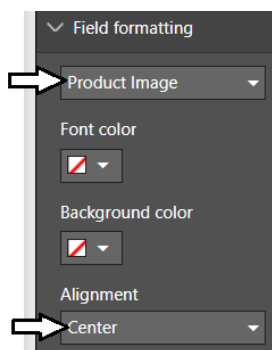


Product Image	Product	Units Sold	Sales Revenue
	Godzilla Action Figure	3	\$60
Total		3	\$60


- d) With the table visual selected, navigate to the **Grid** section for the **Format** properties pane.
- e) Modify the **Text size** property to a value of **8** and modify the image height to a value of **24**.



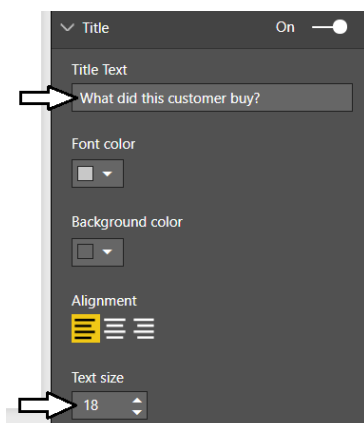
- f) Move down in the **Format** properties pane and locate the **Field formatting** section.
- g) In the dropdown menu at the top of the **Field formatting** section, select the field named **Product Image**.
- h) With **Product Image** field selected, set the **Alignment** property to **Center**.




- i) The display of the product image should now be in the center of the column width.

Product Image	Product	Units Sold	Sales Revenue
	Godzilla Action Figure	3	\$60
Total		3	\$60

- j) Move down in the **Format** properties pane and locate the **Title** section.
- k) Modify the **Title text** property to **What did this customer buy?**
- l) Change the **Text size** property of the title to **18**.

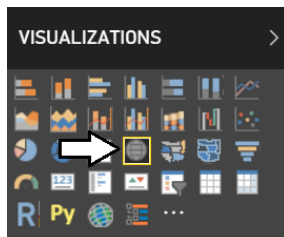


m) Position the table to the right of the card visuals as shown in the following screenshot.

Aaron Beasley				What did this customer buy?			
\$60	1	3	88	Product Image	Product	Units Sold	Sales Revenue
Sales Revenue	Purchase Count	Units Sold	Age		Godzilla Action Figure	3	\$60
				Total		3	\$60

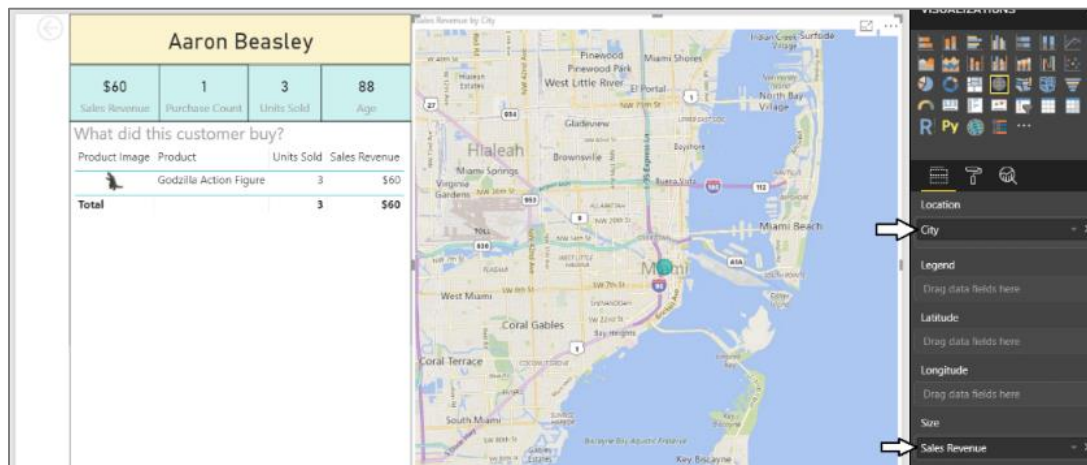
6. Add a new map visual to show where the customer lives.

a) Add a new map visual to the report page.

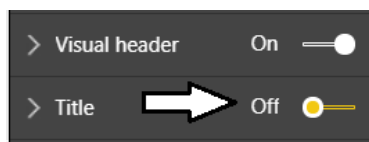


b) Add the **City** field from the **Customers** table into the **Location** well of the map.

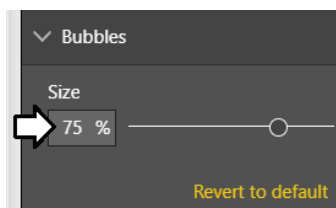
c) Add the **Sales Revenue** field from the **Sales** table into the **Size** well of the map visual.



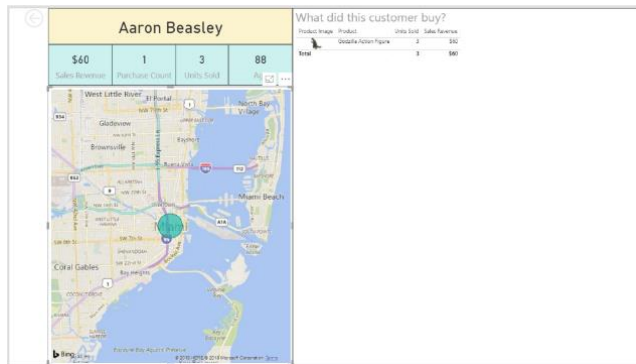
d) Set the **Title** property of the map visual to **Off** to hide the visual title.



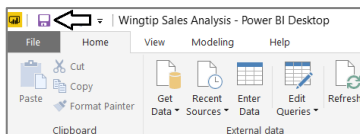
e) Inside the **Bubbles** section in the **Format** properties pane for the map visual, increase the **Size** property to **75%**.



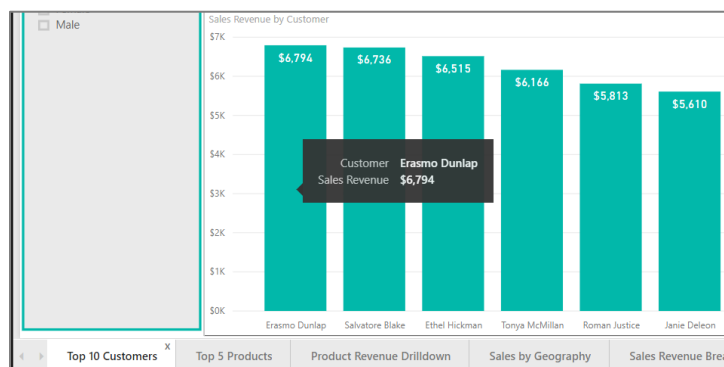
- f) Place the map visual beneath the card visuals as shown in the following screenshot.



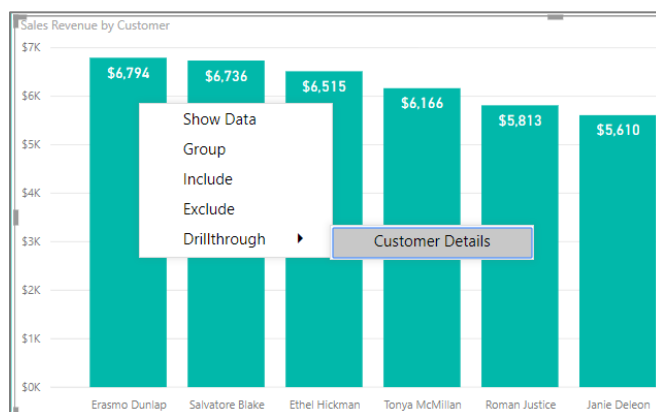
7. Save your work by clicking the **Save** button in the top-left corner of the Power BI Desktop window.



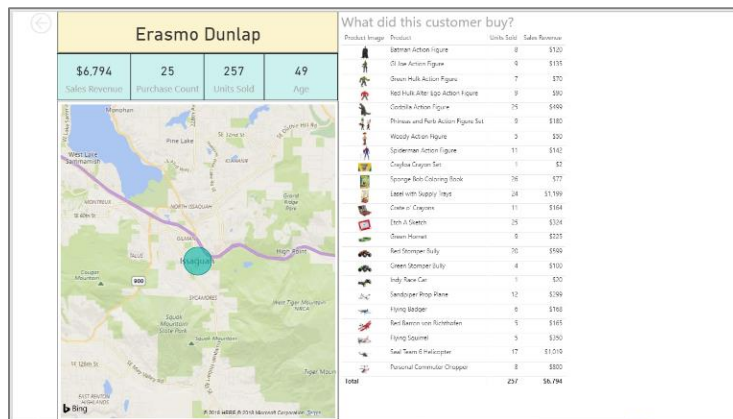
8. Test it out the drillthrough.
- Navigate to the **Top 10 Customers** page.
 - Hover you mouse over the column on the left for the customer **Erasmus Dunlap**.



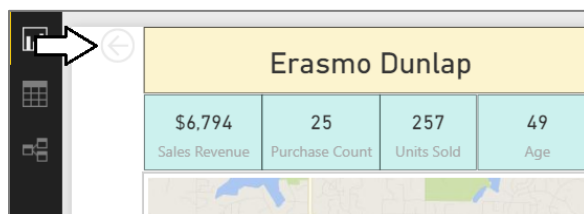
- c) Right-click the column for the customer **Erasmus Dunlap** and then select **Drillthrough > Customer Details**.



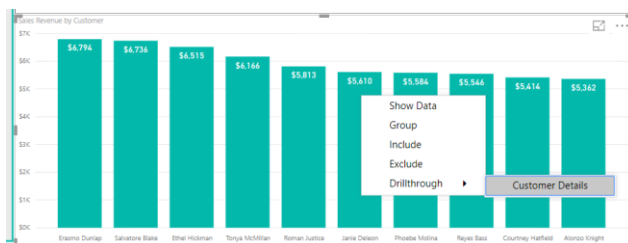
- d) You should be redirected to the **Customer Details** page and the filter should be automatically set to **Erasmus Dunlap**.



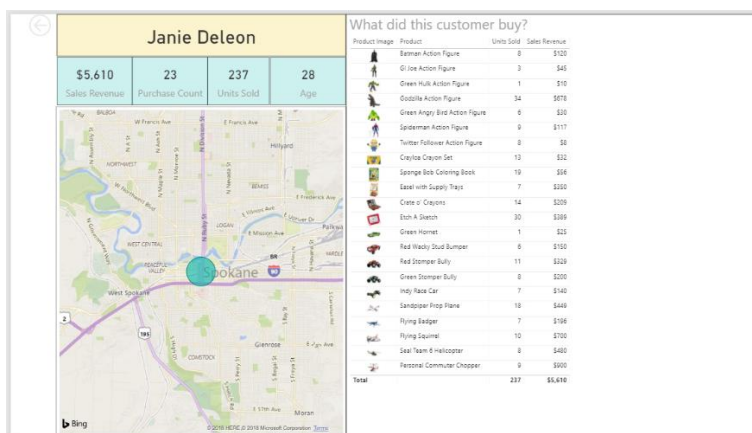
- e) Hold down the **Ctrl** key and click the back button to return to **Top 10 Customers** page.



- f) Now drillthrough to another customer such as **Janie Deleon**.



- g) You should be redirected to the **Customer Details** page and the filter should be automatically set to **Erasmus Dunlap**.

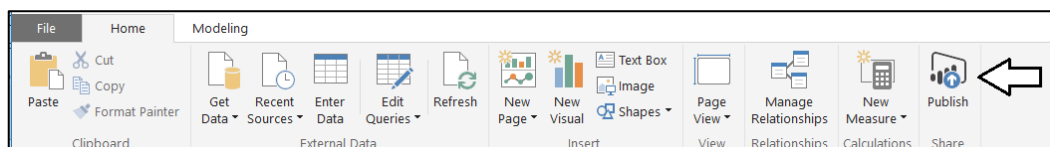


At this point, you are done testing the functionality of your drillthrough page

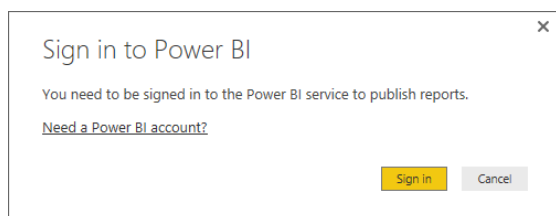
Exercise 6: Publish Your Project and Its Reports to the Power BI Service

In this exercise you will complete your work by publishing the PBIX file to your personal workspace in the Power BI service.

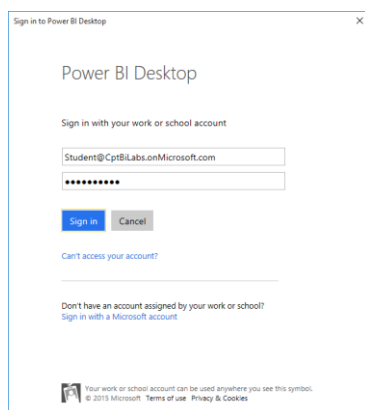
1. Make sure you still have the **Wingtip Sales Analysis.pbix** project file open that you created in the previous exercise.
2. Prepare the report for publishing.
 - a) Navigate to report view.
 - b) Click the **Top 10 Customers** page in the page navigation menu to make that the active report page.
 - c) Click **Save** to save the project.
3. Publish the project to the Power BI service.
 - a) Navigate to **Home** tab in ribbon
 - b) Click the **Publish** button on the far right-hand side of the ribbon.



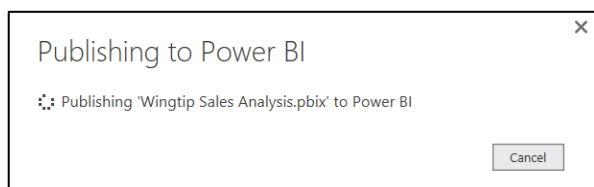
4. When prompted with the **Sign in to Power BI** dialog, click the **Sign In** button



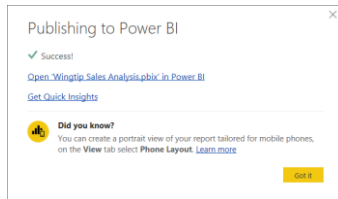
5. Sign into the Power BI service using your primary Office 365 account to give Power BI Desktop the access to publish the PBIX file.



6. After you have signed in, Power BI Desktop will display the **Publishing to Power BI** dialog showing you that the publishing process is underway.



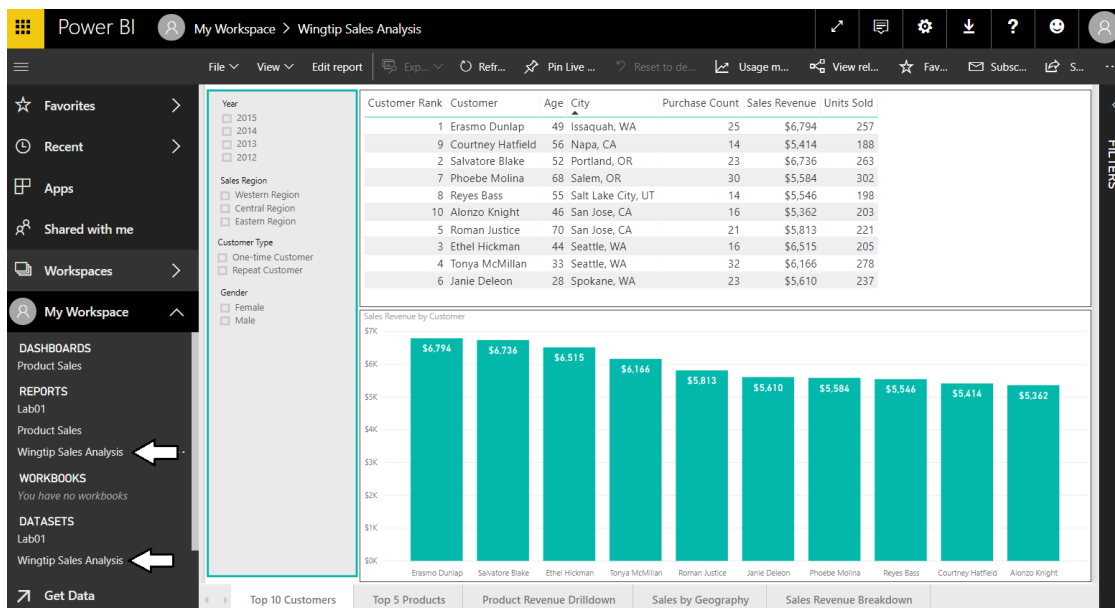
7. Once the publishing process has completed, the **Publishing to Power BI** dialog will display a success message and provide you with a link to **Open 'Wingtip Sales Analysis.pbix' in Power BI**. Click on that link to navigate to the Power BI service using the browser.



8. Once you navigate to the Power BI service in the browser, you should be able to see that the publishing process added a dataset and a report named **Wingtip Sales Analysis** that appear in the left navigation along with any other datasets and reports that were already part of your personal workspace.



9. Inspect the various report pages that you created over the last few labs.



You have now successfully created and published your **Wingtip Sales Analysis.pbix** project using Power BI Desktop. In the next lab you will begin to consolidate the visuals you have created in these report pages into dashboards and you will also learn the various techniques you can use to deploy dashboards and share them with other Office 365 users using group workspaces in Power BI.