Visualizing Data Assignment

a) Cards

• Insert a card in the Customer Detail report page to show Total Customers, and rename the field "UNIQUE CUSTOMERS"

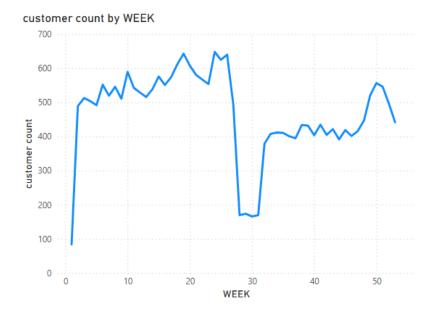
18K Unique Customers

• Copy and paste to create a second card showing Average Revenue per Customer, and rename the field "REVENUE PER CUSTOMER"

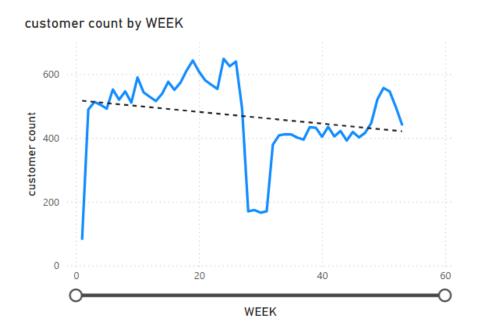
1.37K

b) Line Charts

• Add a line chart to the Customer Detail report showing Total Customers by week

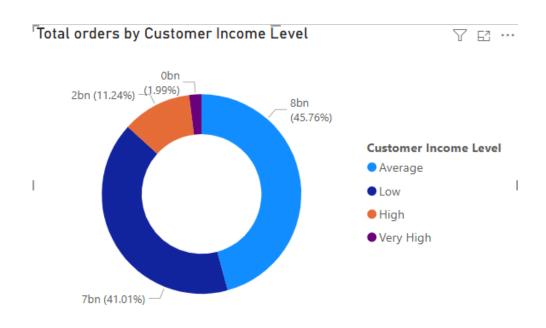


• Add a trend line and a zoom slider to the x-axis



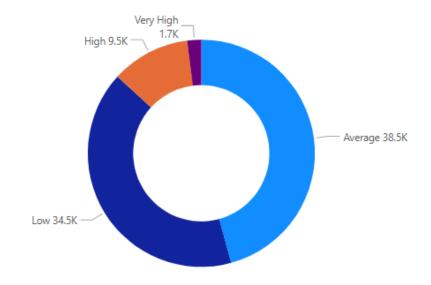
c) Donut Chart

• Add a donut chart to the Customer Detail report showing Total Orders by Income Level

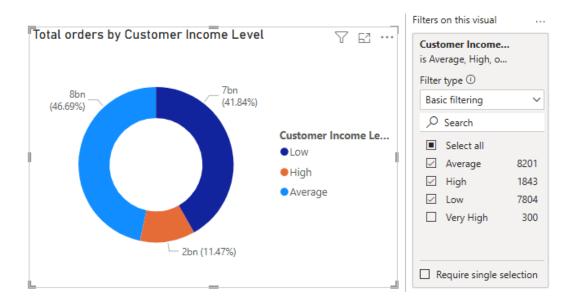


• Add a chart title, turn off the legend, and update the data labels to show the category and value (font size 8, 1 decimal place)

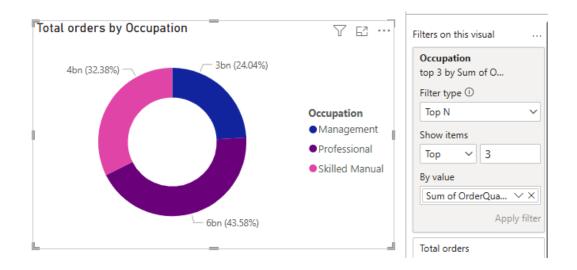
Total orders by Income level



• Add a visual-level filter to exclude customers with a "Very High" income level"



 Copy the chart to show Total Orders by Occupation, and add a visuallevel filter to display the three occupations with the most orders



d) Tables

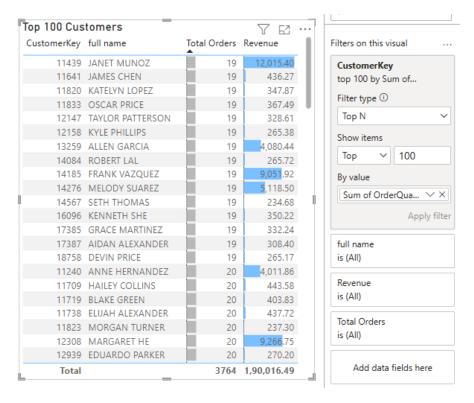
• Add a table to the Customer Detail report to show Customer Key, Full Name, Total Orders (as "Orders") and Total Revenue (as "Revenue")

	Total	_	84174	2,49,14,586.82
	11026	HAROLD SAI	10	2,988.81
	11025	ALEJANDRO BECK	6	2,975.22
	11024	RUSSELL XIE	11	78.02
	11023	SETH EDWARDS	6	142.93
	11022	ETHAN ZHANG	2	2,073.71
	11021	DESTINY WILSON	4	2,148.05
	11020	JORDAN KING	3	2,093.06
	11019	LUKE LAL	51	961.92
	11018	CLARENCE RAI	9	2,919.33
	11017	SHANNON WANG	4	2,835.41
	11016	WYATT HILL	4	2,088.68
	11015	CHLOE YOUNG	4	2,274.38
	11014	SYDNEY BENNETT	10	190.89
	11013	IAN JENKINS	3	41.62
	11012	LAUREN WALKER	8	91.18
	11011	CURTIS LU	3	4,487.16
	11010	JACQUELYN SUAREZ	5	4,459.10
	11009	SHANNON CARLSON	5	4,471.39
	11008	ROBIN VERHOFF	9	4,502.70
	11007	MARCO MEHTA	9	4,590.74
	11005	JULIO RUIZ	6	4,502.76
	11004	ELIZABETH JOHNSON	6	4,568.08
	11003	CHRISTY ZHU	11	4,532.99
	11002	RUBEN TORRES	3	4,466.81
	11001	EUGENE HUANG	15	2,821.21
	11000	JON YANG	10	4,656.39
Custon	nerKey	full name	Total Orders	Revenue

• Use conditional formatting to add light gray data bars to the orders column and a white > blue color scale to the revenue column

CustomerKey	full name	Total Orders	Revenue
11262	JENNIFER SIMMONS	106	1,464.79
11300	FERNANDO BARNES	106	1,839.01
11331	SAMANTHA JENKINS	102	1,739.58
11185	ASHLEY HENDERSON	100	1,716.76
11566	APRIL SHAN	99	1,424.49
11091	DALTON PEREZ	97	1,513.14
11277	CHARLES JACKSON	97	1,776.69
11287	HENRY GARCIA	97	1,442.96
11330	RYAN THOMPSON	97	1,596.61
11223	HAILEY PATTERSON	90	1,615.66
11711	DANIEL DAVIS	89	1,403.85
11176	MASON ROBERTS	88	1,526.03
11200	JASON GRIFFIN	83	1,613.88
11276	NANCY CHAPMAN	76	1,111.23
11505	JASMINE POWELL	61	1,103.52
11631	ANTONIO BENNETT	58	1,001.38
11506	NICHOLAS BROWN	56	934.28
11520	JADA MORGAN	55	1,022.81
11211	SAMANTHA RUSSELL	54	947.96
11502	JARED PETERSON	54	1,051.49
11203	LUIS DIAZ	53	1,002.05
11019	LUKE LAL	51	961.92
11142	EDUARDO PATTERSON	50	1,117.25
11500	SARAH SIMMONS	50	848.91
11212	CHLOE CAMPBELL	48	969.78
11215	ANA PERRY	48	1,335.85
Total		84174	2,49,14,586.82

 Add a visual-level filter (Top N) to show the 100 customers with the most orders, and add a chart title ("Top 100 Customers")



• Sort the table descending by orders

CustomerKey	full name	Total Orders	Revenue
11262	JENNIFER SIMMONS	106	1,464.79
11300	FERNANDO BARNES	106	1,839.01
11331	SAMANTHA JENKINS	102	1,739.58
11185	ASHLEY HENDERSON	100	1,716.76
11566	APRIL SHAN	99	1,424.49
11091	DALTON PEREZ	97	1,513.14
11277	CHARLES JACKSON	97	1,776.69
11287	HENRY GARCIA	97	1,442.96
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11200	JASON GRIFFIN	83	1,613.88
11276	NANCY CHAPMAN	76	1,111.23
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11631	ANTONIO BENNETT	58	1,001.38
11506	NICHOLAS BROWN	56	934.28
11520	JADA MORGAN	55	1,022.81
11211	SAMANTHA RUSSELL	54	947.96
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11203	LUIS DIAZ	53	1,002.05
11019	LUKE LAL	51	961.92

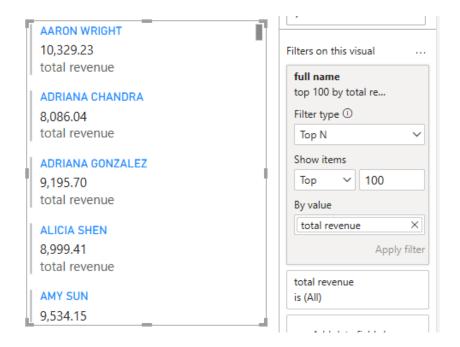
e) Top N cards

• Add a card to the Customer Detail report to show Full Name

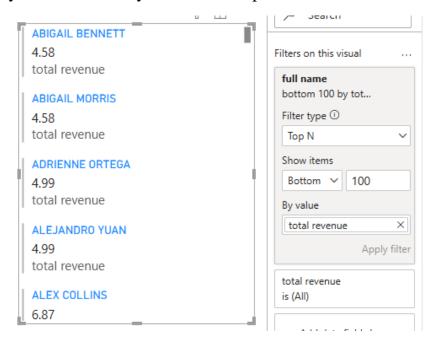
AARON ADAMS

Full name

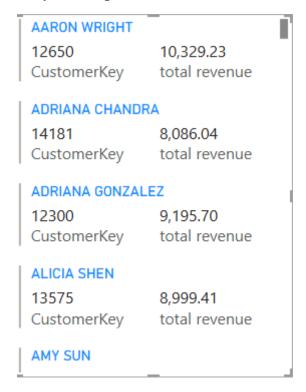
• Add a visual-level filter (Top N) to show the top customer (Full Name) in terms of Total Revenue



• What do you notice when you filter the report for low income customers?



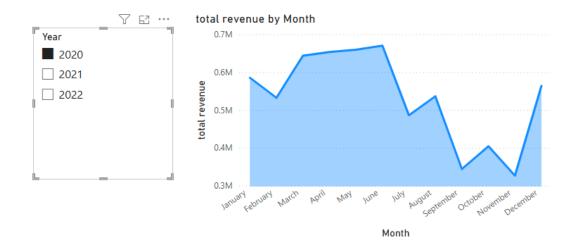
• How could you modify the Top N filter to correct this?



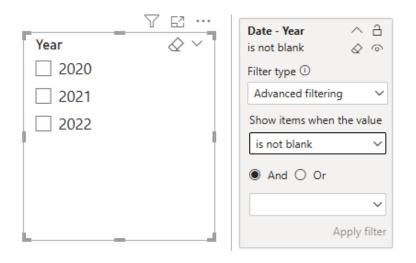
For removing the duplicate customer names, just add the customer key as another field to correct this in Top N filter.

f) Slicers

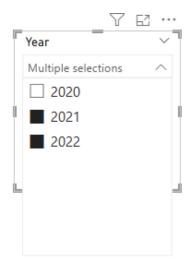
Add a slicer to filter the Customer Detail report page by Year



• Add a visual-level filter to exclude blanks

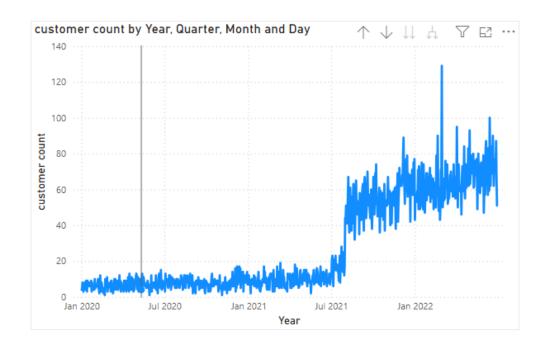


 Choose any slicer style that allows users to filter individual years or across multiple years

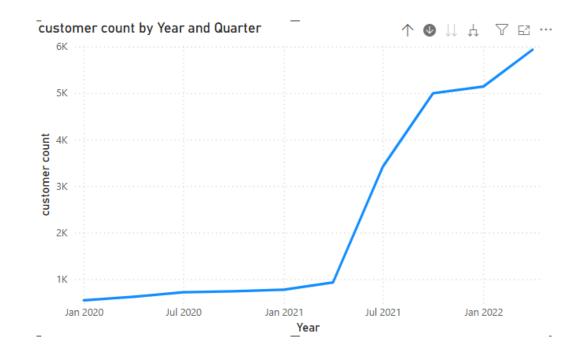


g) Drill Down

• In the Customer Detail report, update the X-axis of the line chart to pull in Date Hierarchy

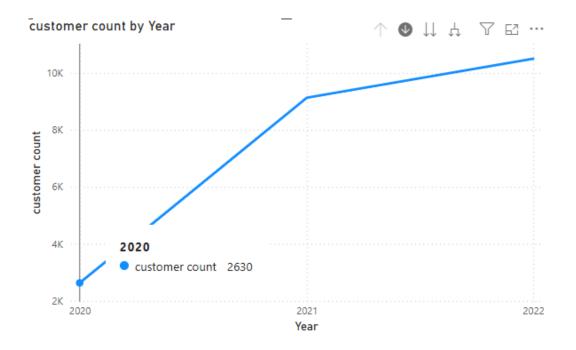


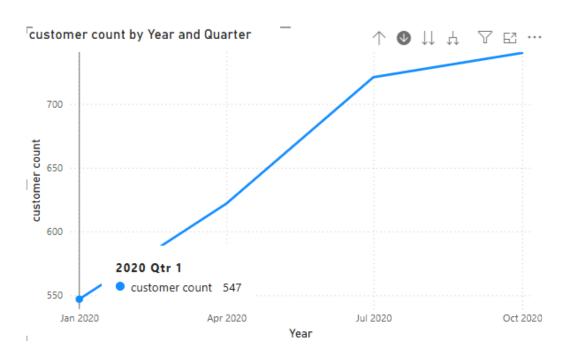
• Use the chart header to drill up and drill down to explore trends at each level of granularity

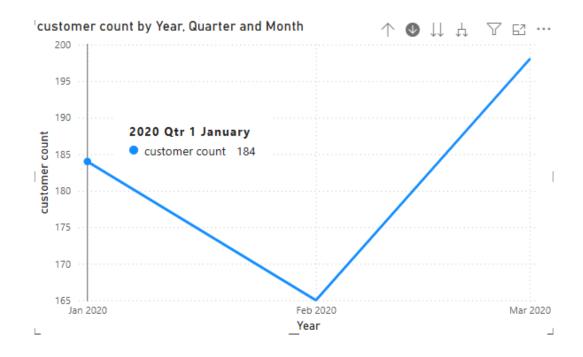


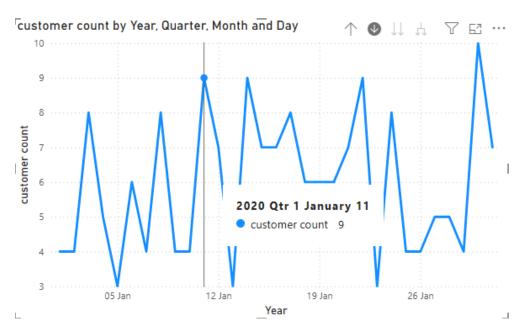


• Test drill mode to change the granularity by selecting individual data points in the chart



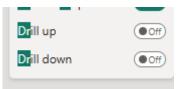






So we have checked the drill mode to change the granularity by selecting individual data point on 2020 Qtr 1 January 11.

• Turn off drill mode and show the chart at a weekly level of granularity by default

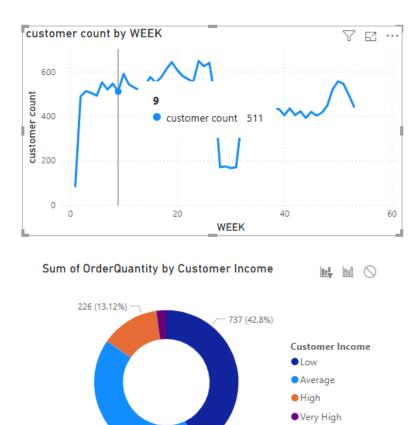




By adding a bookmark it will always filter customer count by week by default.

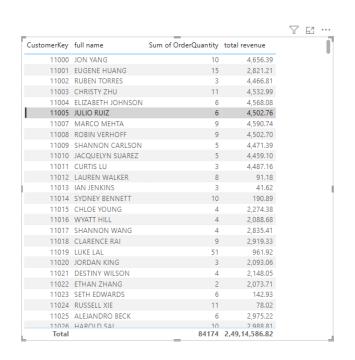
h) Report Interactions

- On the Customer Detail tab, edit the report interactions based on the following logic:
 - → When a filter is applied to the line chart, the donut charts should filter (not highlight)



→ When a filter is applied to the table, the line chart and donuts should not filter

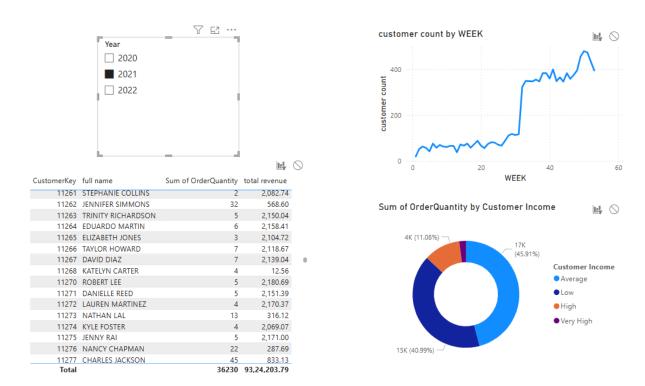
721 (41.87%)





The filtering interaction for these visuals are disabled as we selected the "None" icon (a circle with a diagonal line through it) above the line chart and donut chart.

\rightarrow The slicer should filter all visuals on the report page



The filtering interaction for the slicer with all other charts were enabled so when I select different year, the change is reflected in all other charts too.