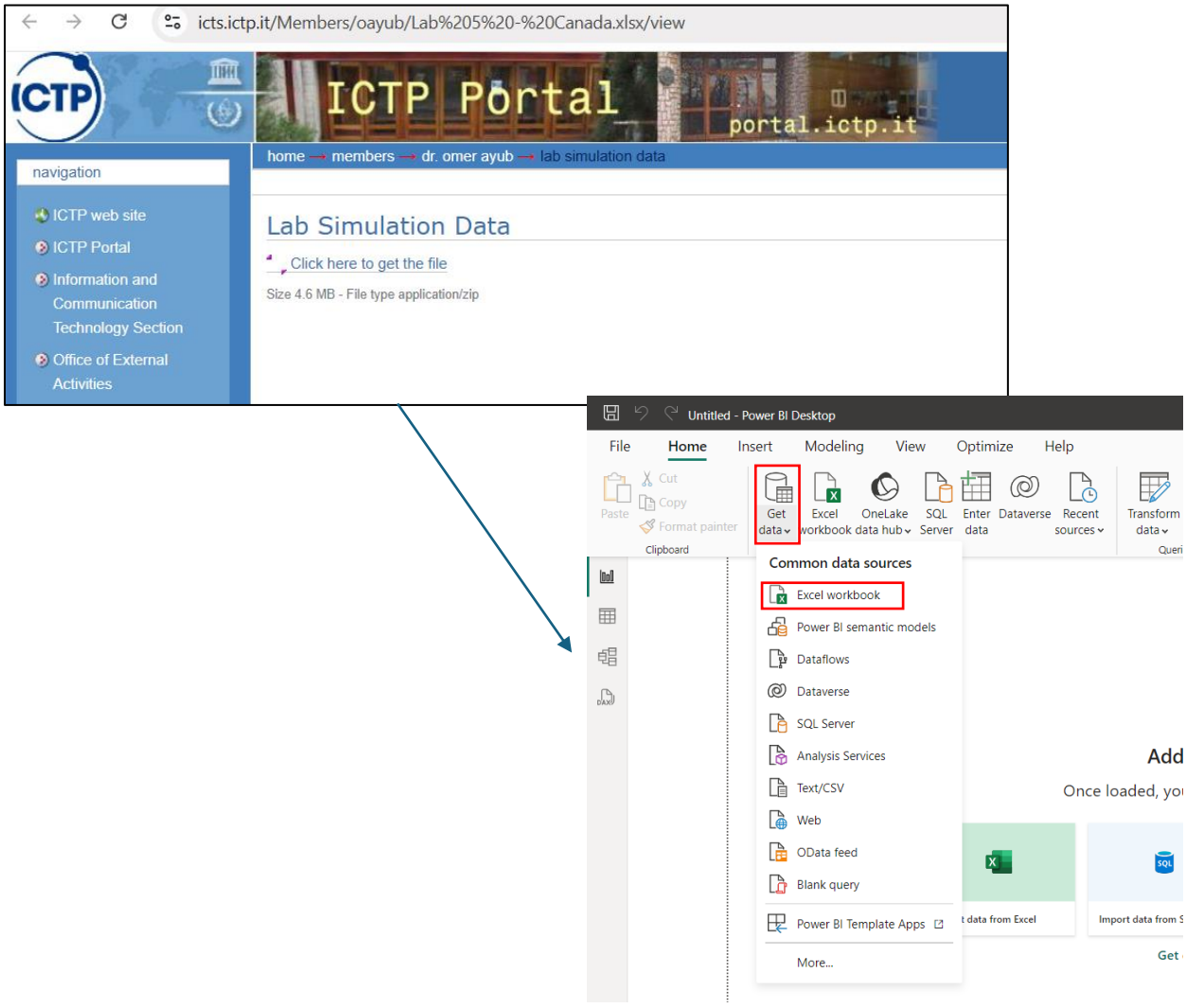
Group 5: Nilo, Daniella Kim N. Course/Section: CSS182-2/CS-O

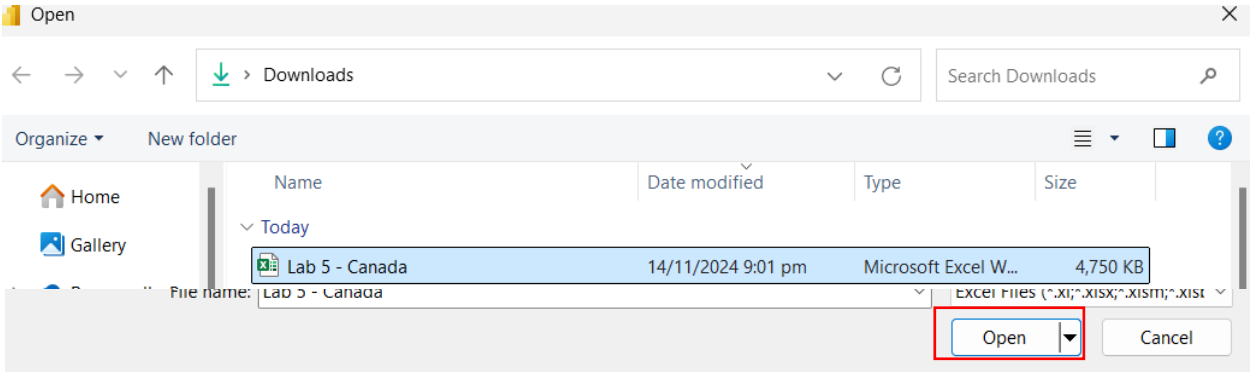
Peñaflor, Rowencell A.

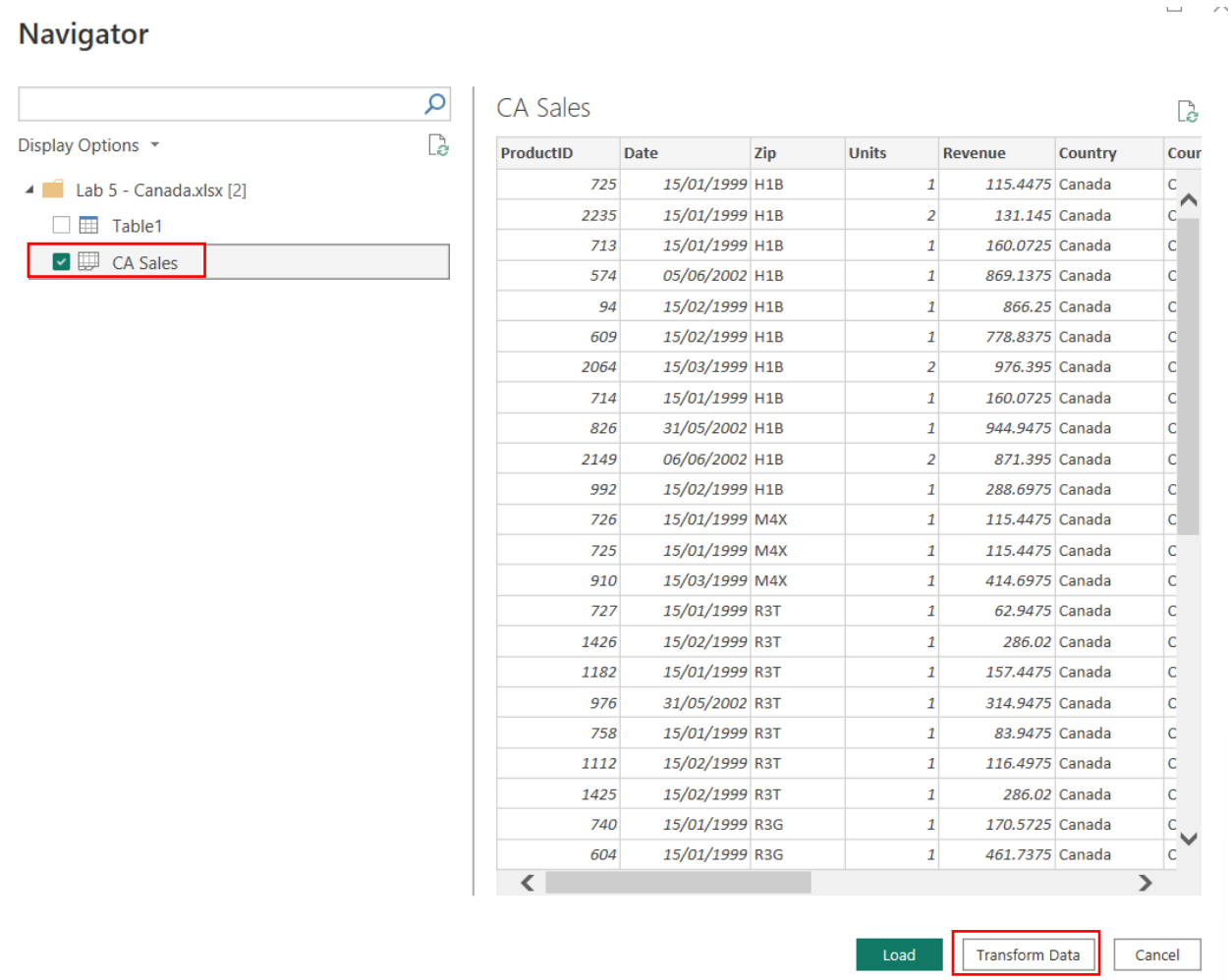
M2-FA3: PowerBI Tutorial

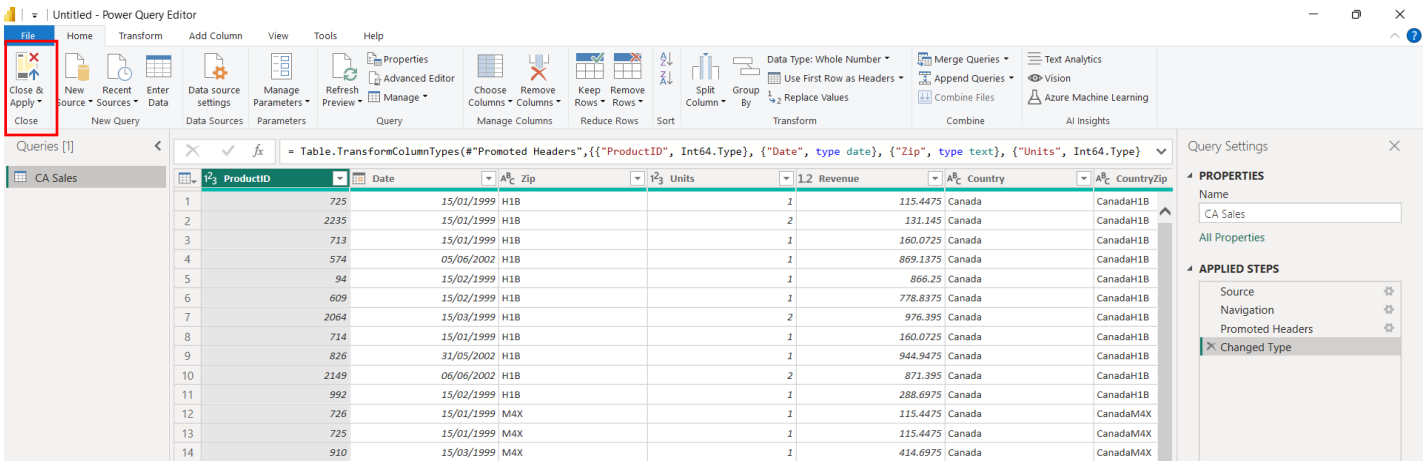
DOWNLOADING AND LOADING THE DATA

Before we proceeded with the tutorial, we first downloaded the data specified in the tutorial. After successfully downloading it, we opened `PowerBI`, clicked the `Get data` button in the `Home menu`, and chose `Excel Workbook`. Then, we opened the `Excel` file we downloaded and clicked the `CA Sales` in the `Navigator` window. Afterwards, the preview of the data is shown, and we clicked `Transform Data`. In the `Transform Data Window`, we inspected the data, and once done, we clicked the `Close and Apply` button in the `Home Menu`.



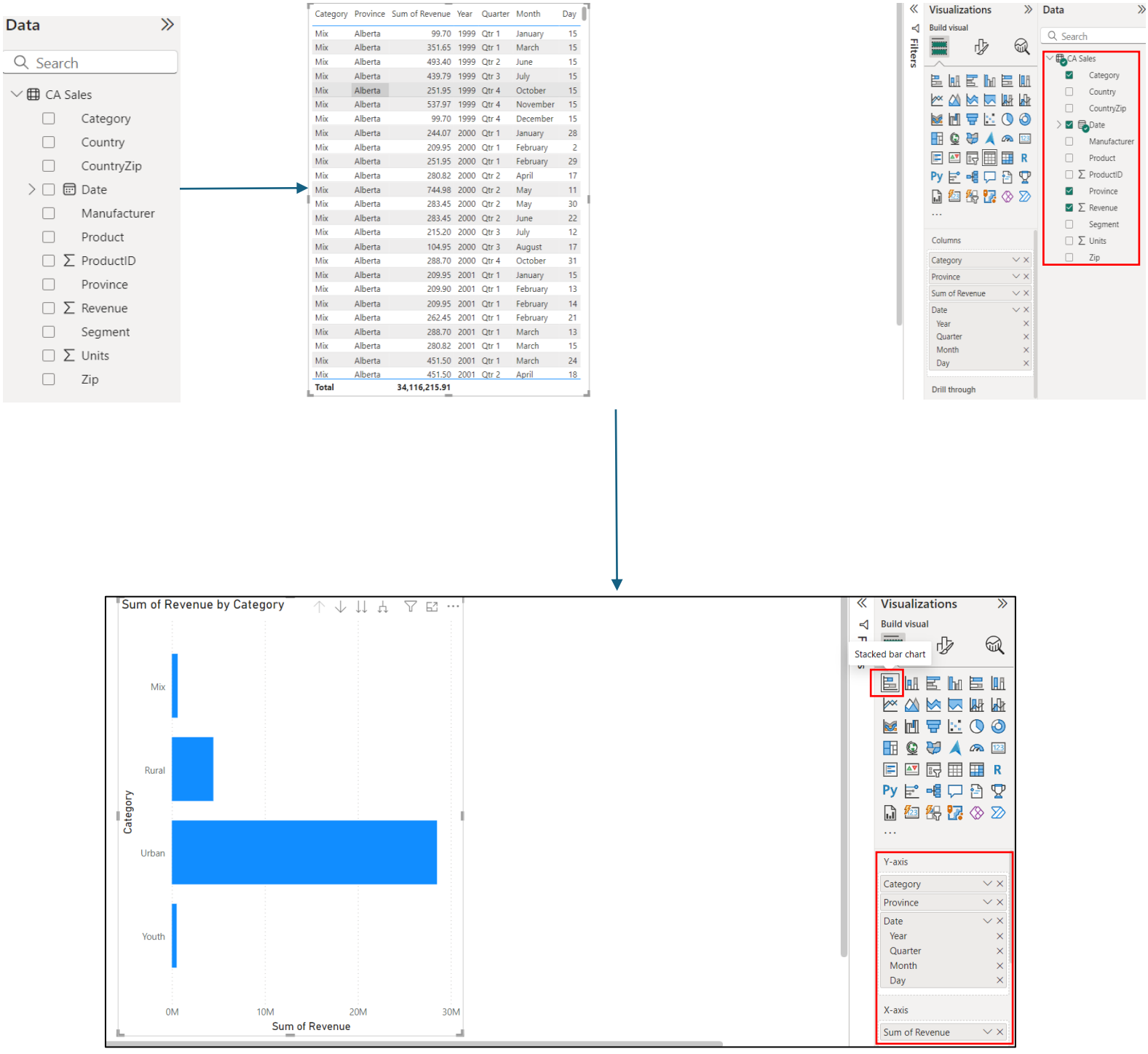

Open
Downloads
Search Downloads
Organize
New folder
Home
Gallery
Name
Date modified
Type
Size
Today
Lab 5 - Canada
14/11/2024 9:01 pm
Microsoft Excel W...
4,750 KB
File name:
Lab 5 - Canada
Open
Cancel

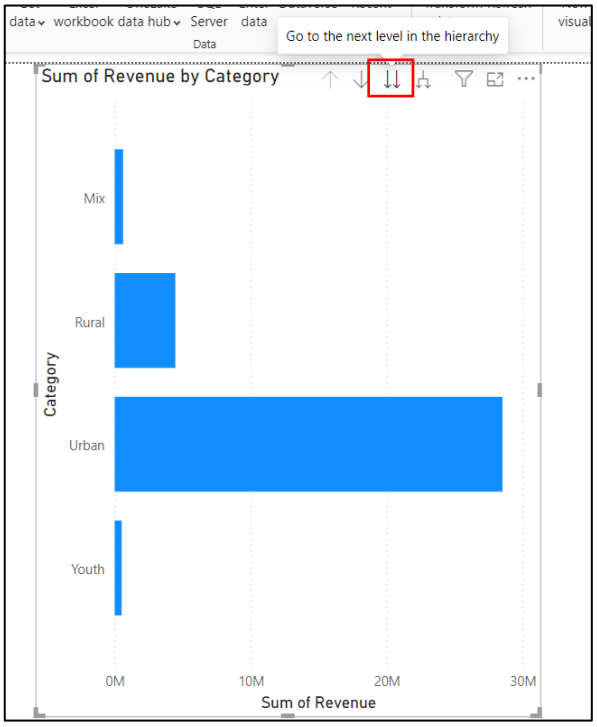

Navigator
Display Options
Lab 5 - Canada.xlsx [2]
Table1
CA Sales
CA Sales
ProductID Date Zip Units Revenue Country
725 15/01/1999 H1B 1 115.4475 Canada
2235 15/01/1999 H1B 2 131.145 Canada
713 15/01/1999 H1B 1 160.0725 Canada
574 05/06/2002 H1B 1 869.1375 Canada
94 15/02/1999 H1B 1 866.25 Canada
609 15/02/1999 H1B 1 778.8375 Canada
2064 15/03/1999 H1B 2 976.395 Canada
714 15/01/1999 H1B 1 160.0725 Canada
826 31/05/2002 H1B 1 944.9475 Canada
2149 06/06/2002 H1B 2 871.395 Canada
992 15/02/1999 H1B 1 288.6975 Canada
726 15/01/1999 M4X 1 115.4475 Canada
725 15/01/1999 M4X 1 115.4475 Canada
910 15/03/1999 M4X 1 414.6975 Canada
727 15/01/1999 R3T 1 62.9475 Canada
1426 15/02/1999 R3T 1 286.02 Canada
1182 15/01/1999 R3T 1 157.4475 Canada
976 31/05/2002 R3T 1 314.9475 Canada
758 15/01/1999 R3T 1 83.9475 Canada
1112 15/02/1999 R3T 1 116.4975 Canada
1425 15/02/1999 R3T 1 286.02 Canada
740 15/01/1999 R3G 1 170.5725 Canada
604 15/01/1999 R3G 1 461.7375 Canada
Load
Transform Data
Cancel

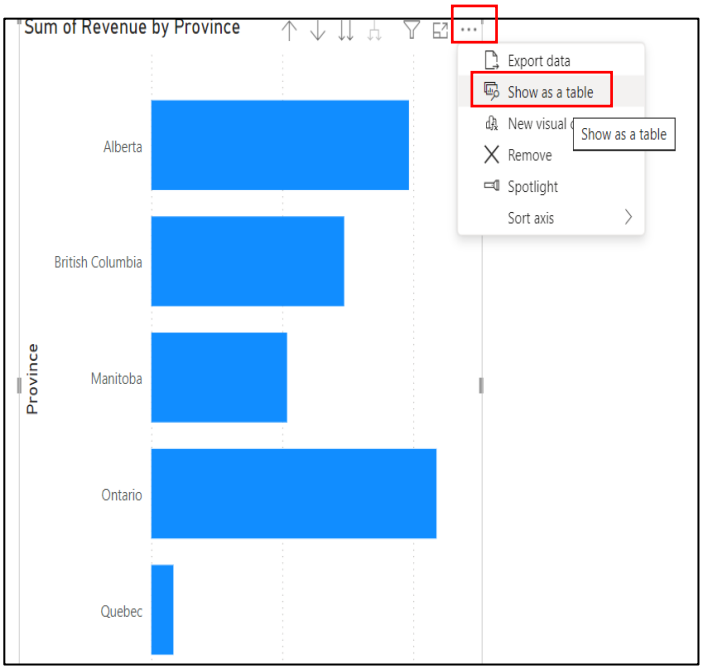


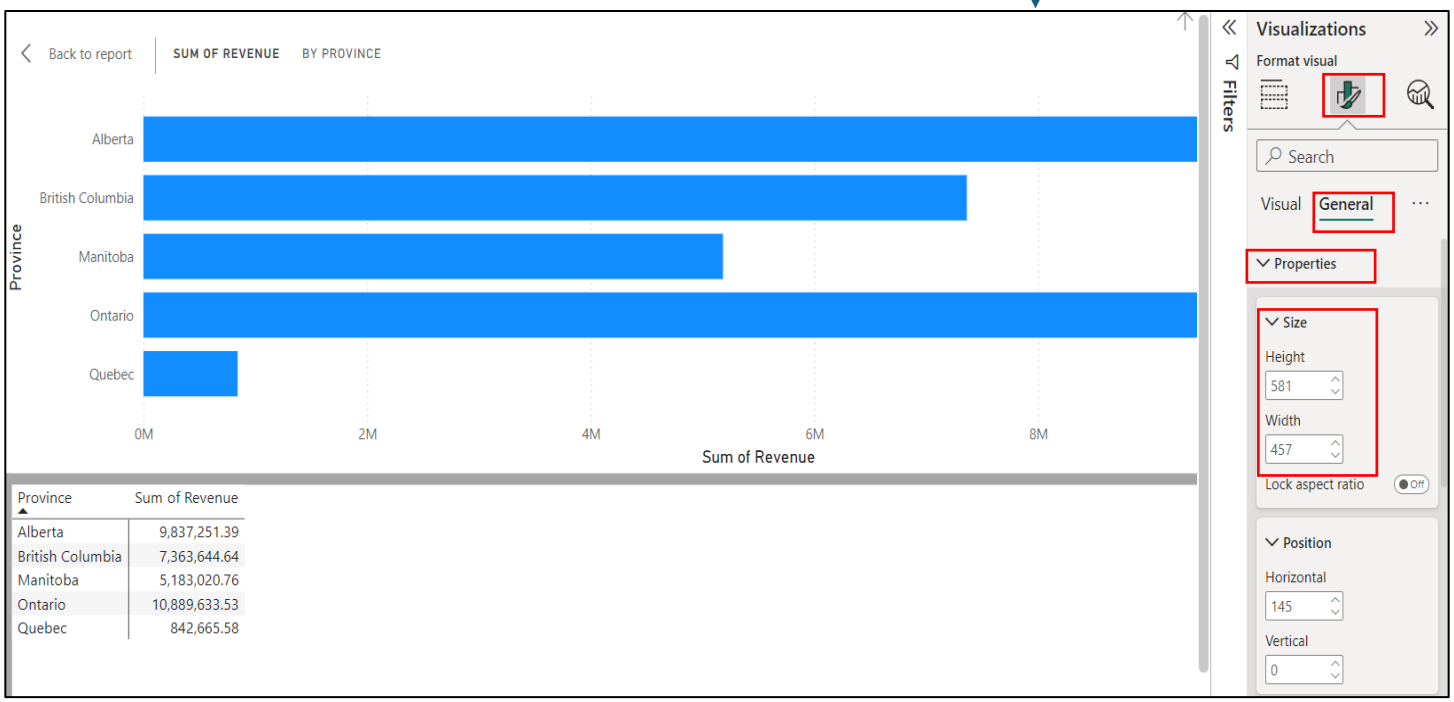
EXPLORING HIERARCHY BUTTON

The next process we did was to inspect the fields in the `Data pane`. Then, we dragged the `Category, Date, Province, and Revenue` fields into the report canvas. The information in these fields is shown in the table. To provide a visualization on the table, we clicked the `Stacked bar chart` on the `Visualizations` tab and used the `Category, Province and Date` for the `Y axis` and `Sum of Revenue on the X axis`. Subsequently, we clicked the `Go to the next level in the hierarchy button` to view the `Sum of Revenue by Province`. We clicked the `More options button` and chose the `Show as a table` button. Clicking the button provided us with a more detailed view of the bar chart and a table with a specific amount of revenue per province. We also explored the `Format Visualization button`. We clicked `General` button, the `Properties` drop-down and the `Size` drop-down button to determine the height and width of the graph. We clicked `Back to Report` button to go back to the canvas.


Data
Search
CA Sales
Category
Country
CountryZip
Date
Manufacturer
Product
ProductID
Province
Revenue
Segment
Units
Zip
Category Province Sum of Revenue Year Quarter Month Day
Mix Alberta 99.70 1999 Qtr 1 January 15
Mix Alberta 351.65 1999 Qtr 1 March 15
Mix Alberta 493.40 1999 Qtr 2 June 15
Mix Alberta 439.79 1999 Qtr 3 July 15
Mix Alberta 251.95 1999 Qtr 4 October 15
Mix Alberta 537.97 1999 Qtr 4 November 15
Mix Alberta 99.70 1999 Qtr 4 December 15
Mix Alberta 244.07 2000 Qtr 1 January 28
Mix Alberta 209.95 2000 Qtr 1 February 2
Mix Alberta 251.95 2000 Qtr 1 February 29
Mix Alberta 280.82 2000 Qtr 2 April 17
Mix Alberta 744.98 2000 Qtr 2 May 11
Mix Alberta 283.45 2000 Qtr 2 May 30
Mix Alberta 283.45 2000 Qtr 2 June 22
Mix Alberta 215.20 2000 Qtr 3 July 12
Mix Alberta 104.95 2000 Qtr 3 August 17
Mix Alberta 288.70 2000 Qtr 4 October 31
Mix Alberta 209.95 2001 Qtr 1 January 15
Mix Alberta 209.90 2001 Qtr 1 February 13
Mix Alberta 209.95 2001 Qtr 1 February 14
Mix Alberta 262.45 2001 Qtr 1 February 21
Mix Alberta 288.70 2001 Qtr 1 March 13
Mix Alberta 280.82 2001 Qtr 1 March 15
Mix Alberta 451.50 2001 Qtr 1 March 24
Mix Alberta 451.50 2001 Qtr 2 April 18
Total 34,116,215.91
Visualizations
Build visual
Filters
Columns
Category
Province
Sum of Revenue
Date
Year
Quarter
Month
Day
Drill through
Data
Search
CA Sales
Category
Country
CountryZip
Date
Manufacturer
Product
ProductID
Province
Revenue
Segment
Units
Zip
Sum of Revenue by Category
Mix
Rural
Urban
Youth
Category
0M
10M
20M
30M
Sum of Revenue
Visualizations
Build visual
Stacked bar chart
Y-axis
Category
Province
Date
Year
Quarter
Month
Day
X-axis
Sum of Revenue

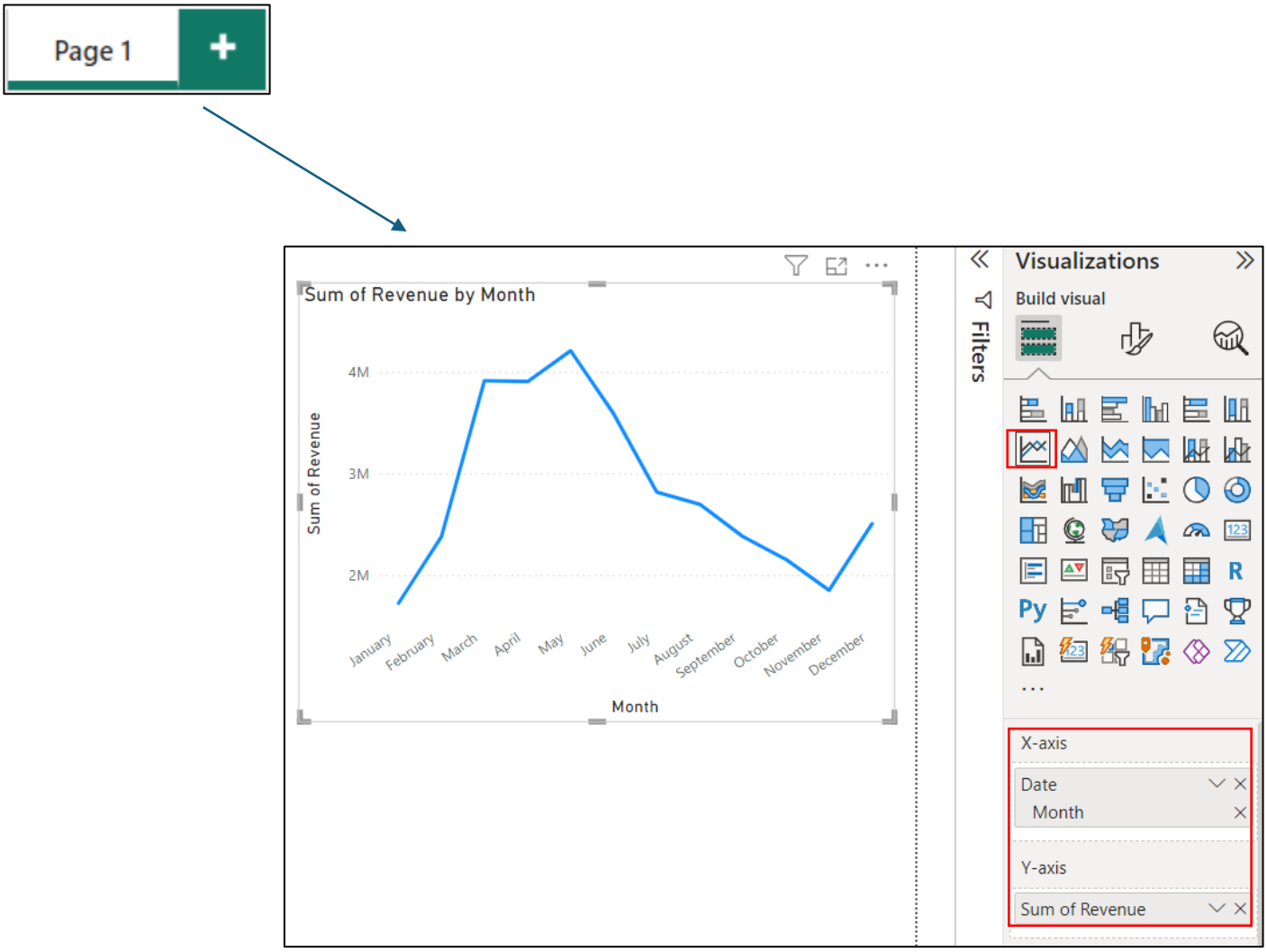

Go to the next level in the hierarchy
Sum of Revenue by Category
Mix
Rural
Urban
Youth
Category
0M
10M
20M
30M
Sum of Revenue

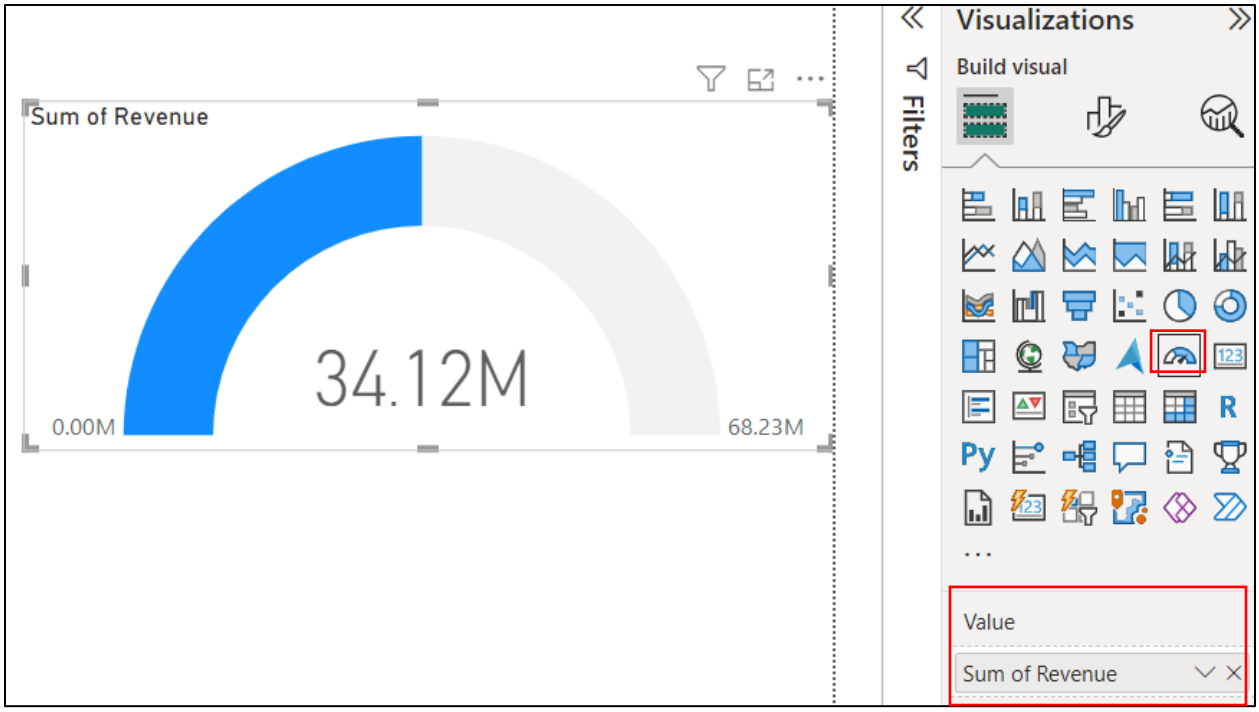

Sum of Revenue by Province
Export data
Show as a table
New visual
Remove
Spotlight
Sort axis
Show as a table
Alberta
British Columbia
Manitoba
Ontario
Quebec
Province

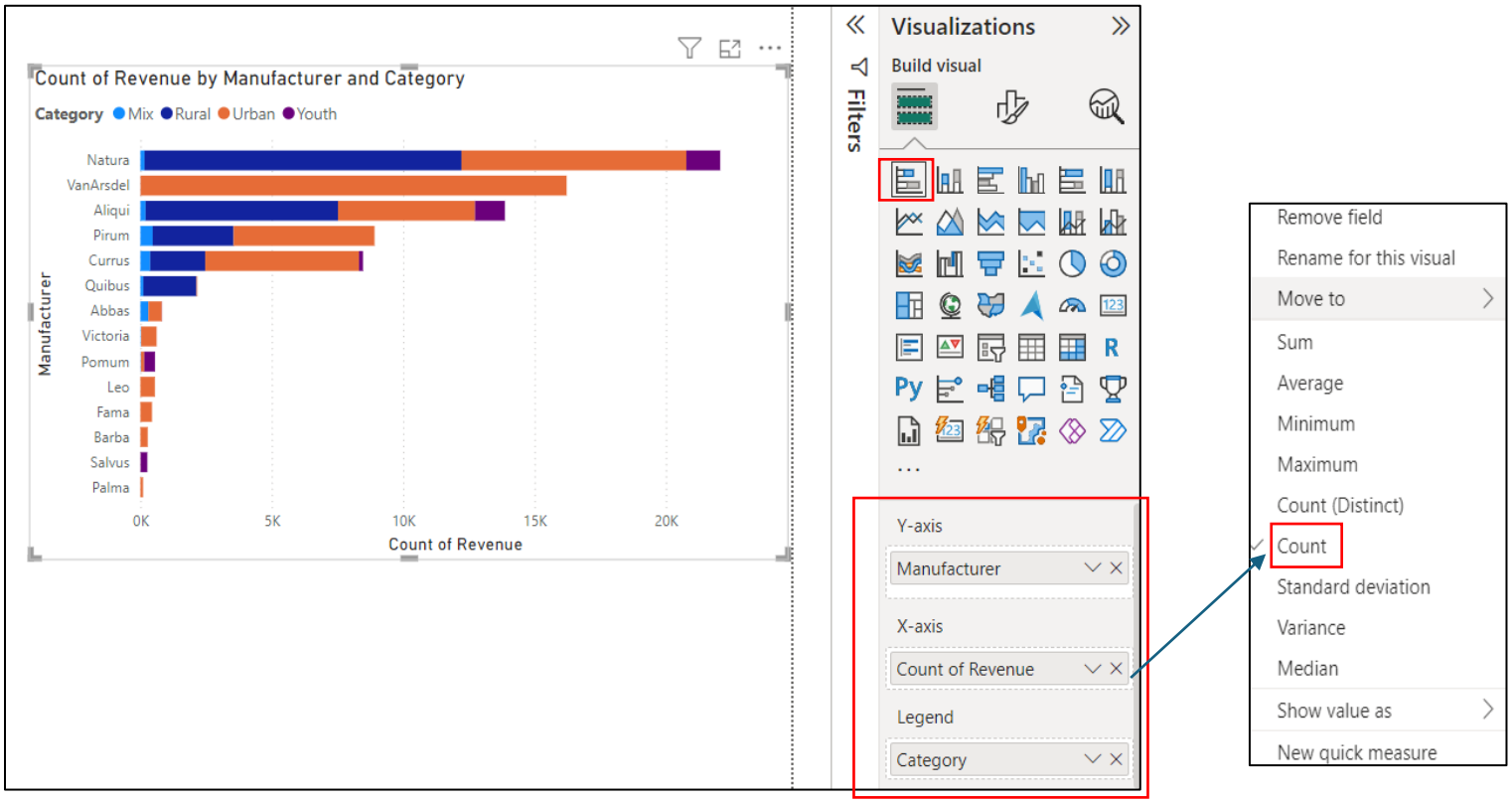

Back to report
SUM OF REVENUE
BY PROVINCE
Alberta
British Columbia
Manitoba
Ontario
Quebec
Province
0M
2M
4M
6M
8M
Sum of Revenue
Province
Sum of Revenue
Alberta
9,837,251.39
British Columbia
7,363,644.64
Manitoba
5,183,020.76
Ontario
10,889,633.53
Quebec
842,665.58
Visualizations
Format visual
Filters
Search
Visual
General
Properties
Size
Height
581
Width
457
Lock aspect ratio
Off
Position
Horizontal
145
Vertical
0

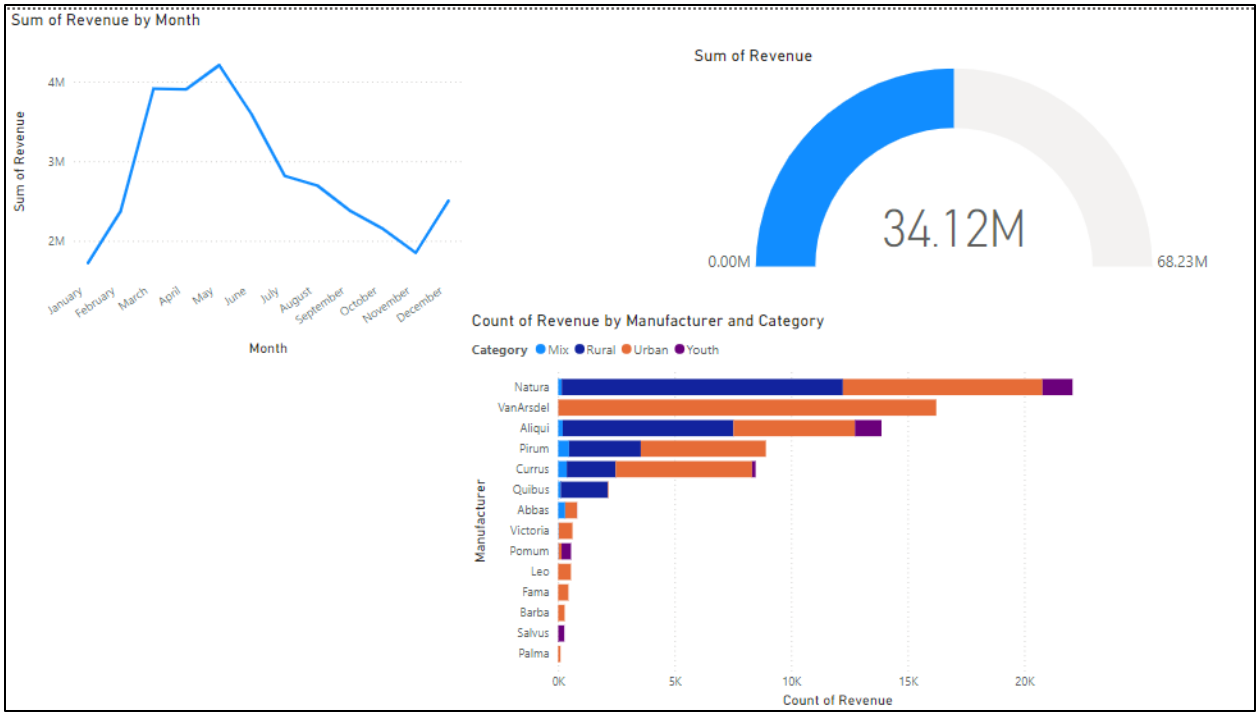
ADDING LINE GRAPH, GAUGE AND STACKED BAR CHART

We created a new page by clicking the **+** button. On that page, we created a `Line graph` by clicking the `Visualization` pane and then the `Line graph icon`. We used the `Month` field as a value on the `X-axis` and `Sum of Revenue` on the `Y-axis`. On the same page, we also added a `Gauge` visualization clicking the `Gauge` icon on the `Visualization` pane and used `Sum of Revenue` as a value. Then, we added a `Stacked bar chart` by clicking its icon on the `Visualization` pane and used fields `Manufacturer` on the `Y-axis`, `Count of Revenue` on the `X-axis`, and `Category` as `Legend`. We changed the value of the `X-axis` to `Count of Revenue` from `Sum of Revenue` by clicking the drop-down icon and clicking `Count`.



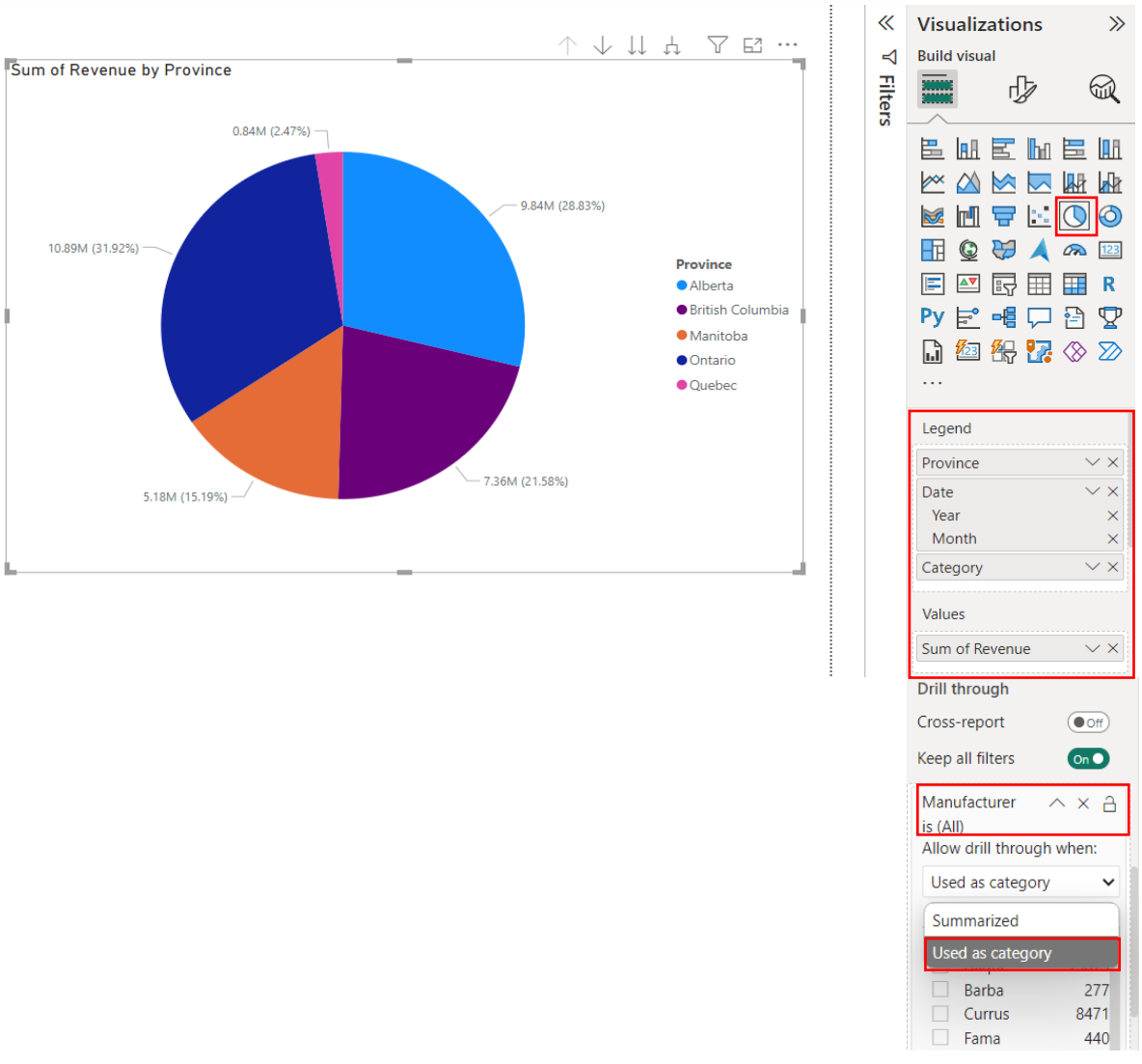

Sum of Revenue
34.12M
0.00M
68.23M
Filters
Visualizations
Build visual
Value
Sum of Revenue

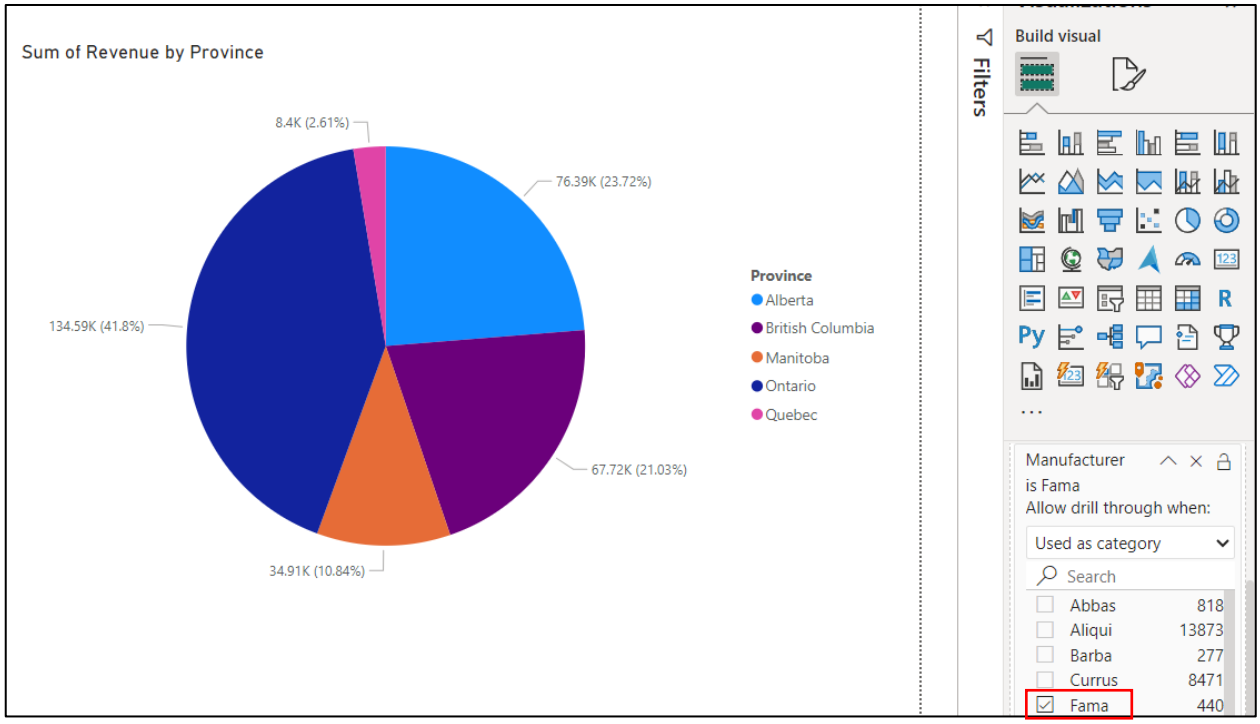

Count of Revenue by Manufacturer and Category
Category Mix Rural Urban Youth
Natura
VanArsdel
Aliqui
Pirum
Currus
Quibus
Abbas
Victoria
Pomum
Leo
Fama
Barba
Salvus
Palma
Manufacturer
0K
5K
10K
15K
20K
Count of Revenue
Filters
Visualizations
Build visual
Y-axis
Manufacturer
X-axis
Count of Revenue
Legend
Category
Remove field
Rename for this visual
Move to
Sum
Average
Minimum
Maximum
Count (Distinct)
Count
Standard deviation
Variance
Median
Show value as
New quick measure

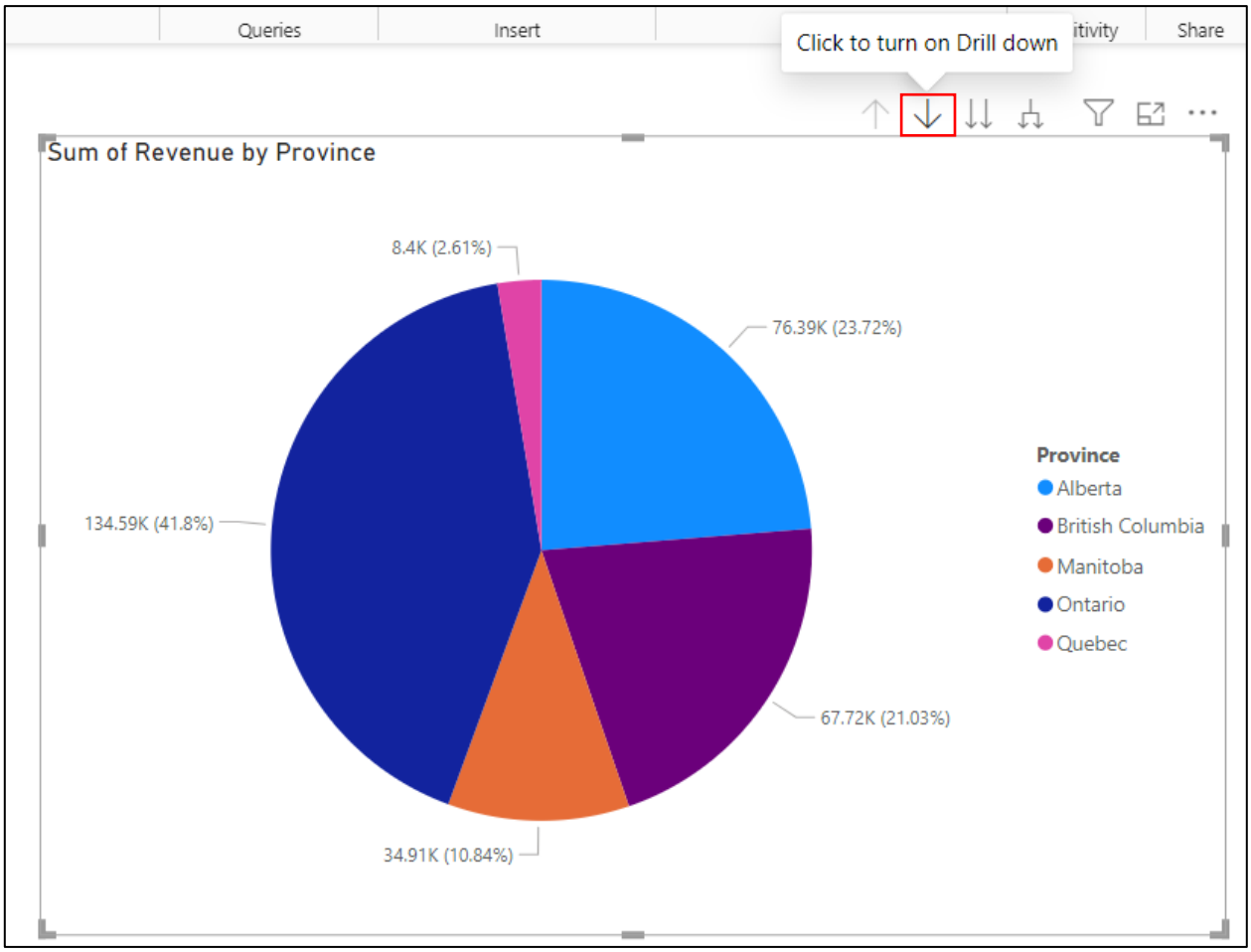

Sum of Revenue by Month
Sum of Revenue
4M
3M
2M
January
February
March
April
May
June
July
August
September
October
November
December
Month
Sum of Revenue
34.12M
0.00M
68.23M
Count of Revenue by Manufacturer and Category
Category Mix Rural Urban Youth
Manufacturer
Natura
VanArsdel
Aliqui
Pirum
Currus
Quibus
Abbas
Victoria
Pomum
Leo
Fama
Barba
Salvus
Palma
0K
5K
10K
15K
20K
Count of Revenue

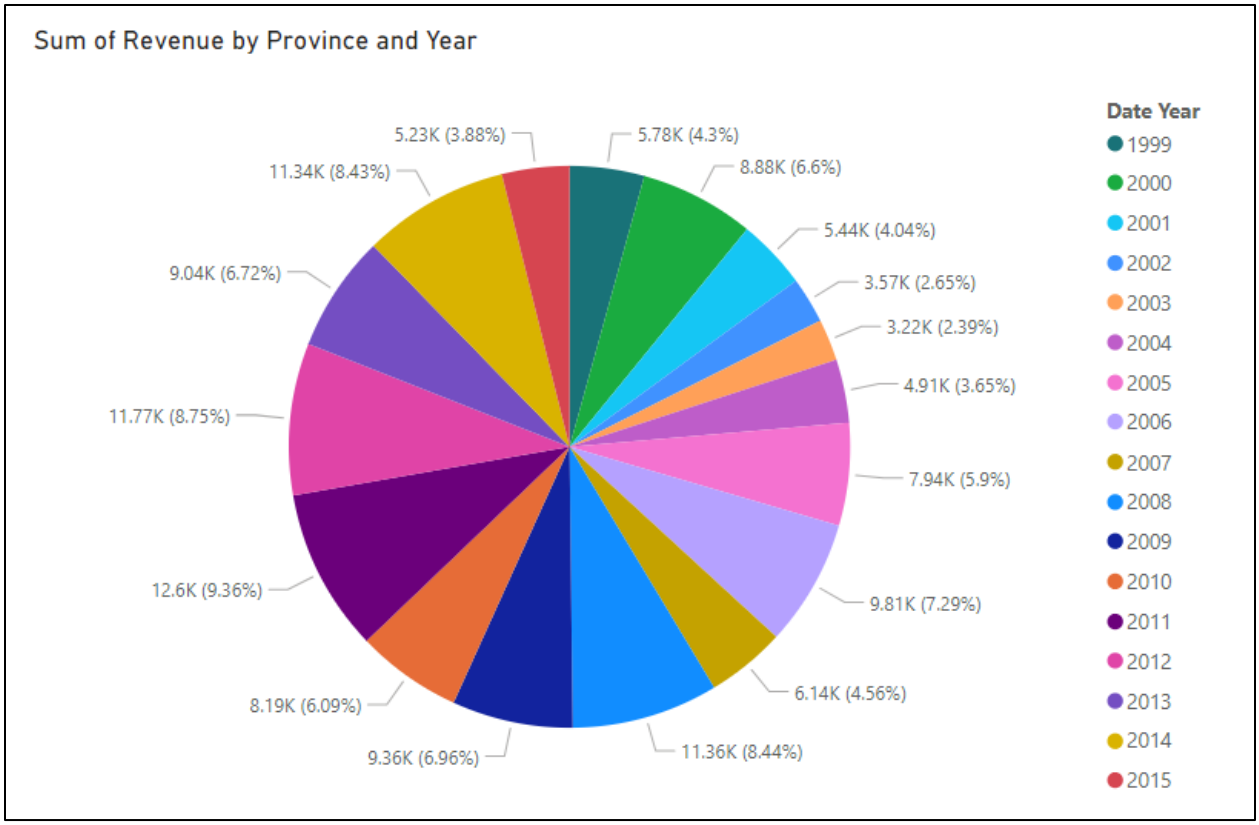
EXPLORING DRILL-THROUGH, DRILL DOWN AND DRILL UP

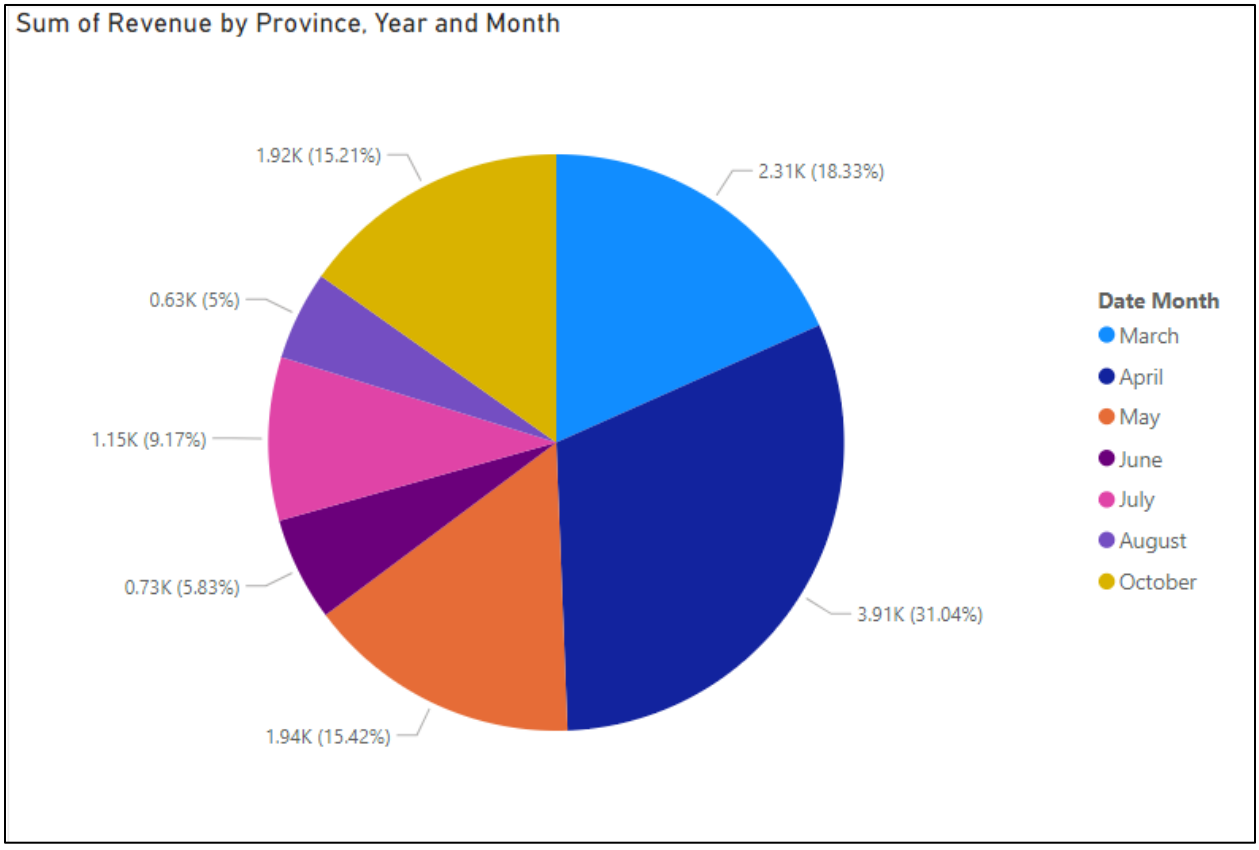
We created another page where we tried the **Pie chart**. We created the **Pie chart** by clicking the **Pie chart** icon on the Visualization pane. We used the fields **Province**, **Date (Year and Month)**, and **Category** for the **Legend**, **Sum of Revenue** for the **Values**, and **Manufacturer** as a **Drill-through** filter. We changed the value of **Allow drill through when:** to **Used as category** by clicking through the drop-down menu. Then on the **Manufacturer**, we clicked **Fama**, and the visualization showed the **Sum of Revenue by Province of the Manufacturer Fama**. We used the drill-down button to explore more of the company's **Sum of Revenue** in the **Province of Ontario**, specifically in the **Year 2011** in the **Month of March**. The visualization showed that most of the company's income came from the **Urban Category**.

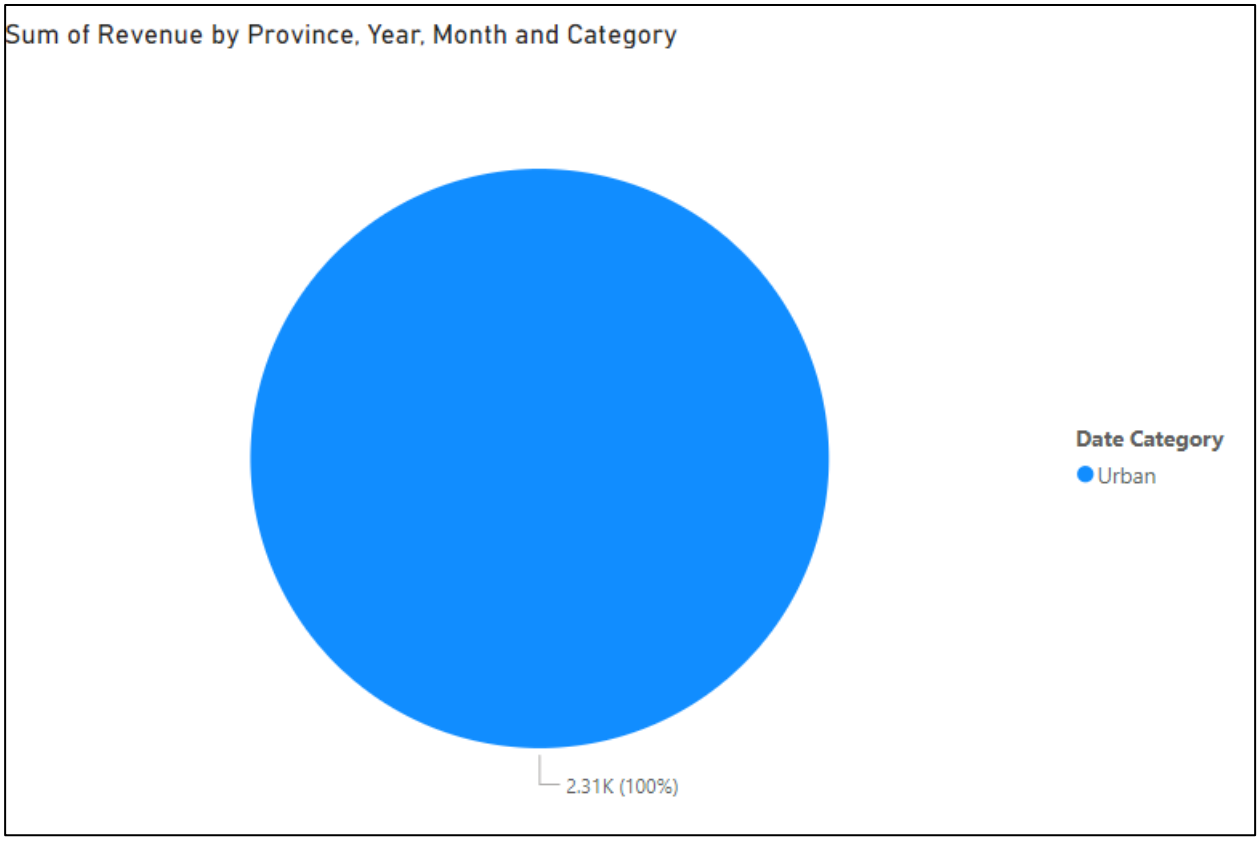



Sum of Revenue by Province
8.4K (2.61%)
76.39K (23.72%)
134.59K (41.8%)
67.72K (21.03%)
34.91K (10.84%)
Province
Alberta
British Columbia
Manitoba
Ontario
Quebec
Filters
Build visual
Manufacturer
is Fama
Allow drill through when:
Used as category
Search
Abbas 818
Aliqui 13873
Barba 277
Currus 8471
Fama 440

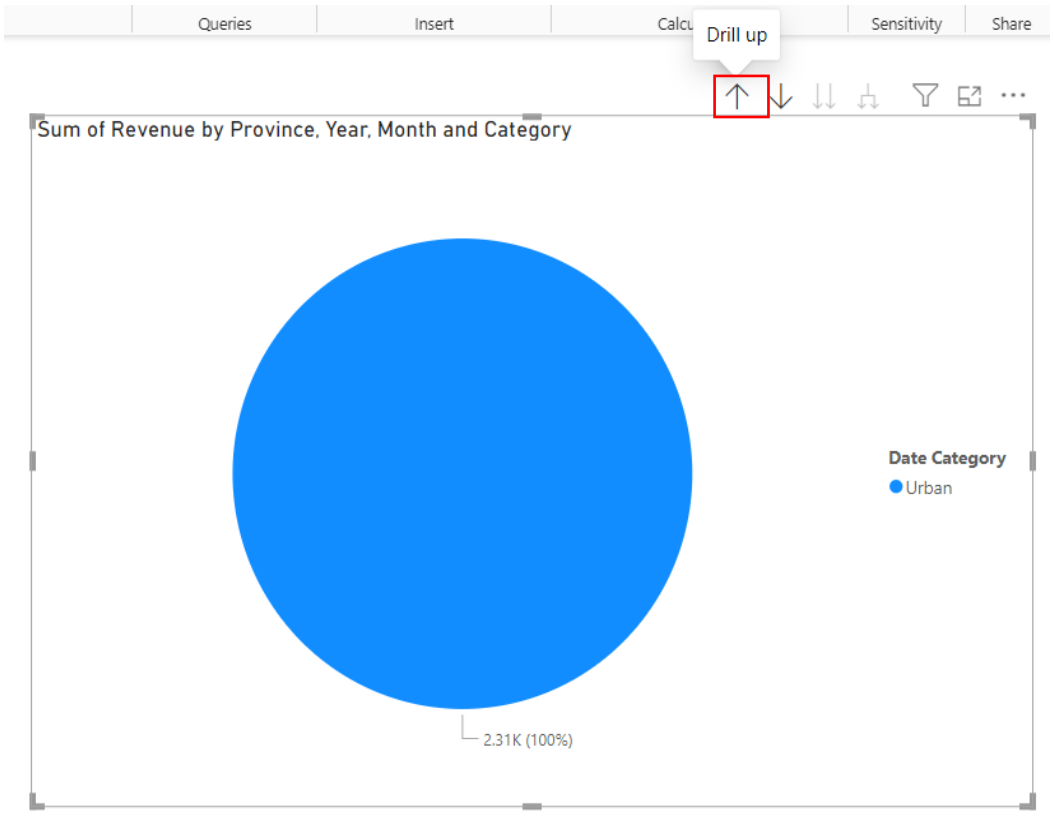

Queries
Insert
Share
Click to turn on Drill down
Sum of Revenue by Province
8.4K (2.61%)
76.39K (23.72%)
134.59K (41.8%)
67.72K (21.03%)
34.91K (10.84%)
Province
Alberta
British Columbia
Manitoba
Ontario
Quebec

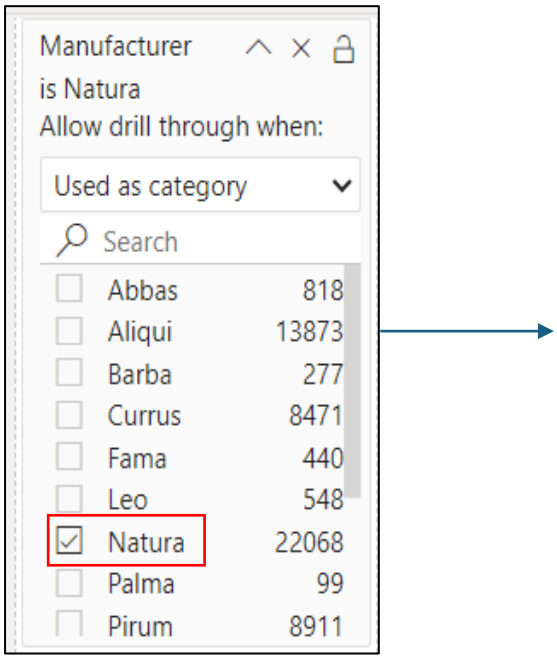

Sum of Revenue by Province and Year
5.23K (3.88%)
5.78K (4.3%)
11.34K (8.43%)
8.88K (6.6%)
5.44K (4.04%)
9.04K (6.72%)
3.57K (2.65%)
3.22K (2.39%)
11.77K (8.75%)
4.91K (3.65%)
7.94K (5.9%)
12.6K (9.36%)
9.81K (7.29%)
6.14K (4.56%)
8.19K (6.09%)
9.36K (6.96%)
11.36K (8.44%)
Date Year
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015

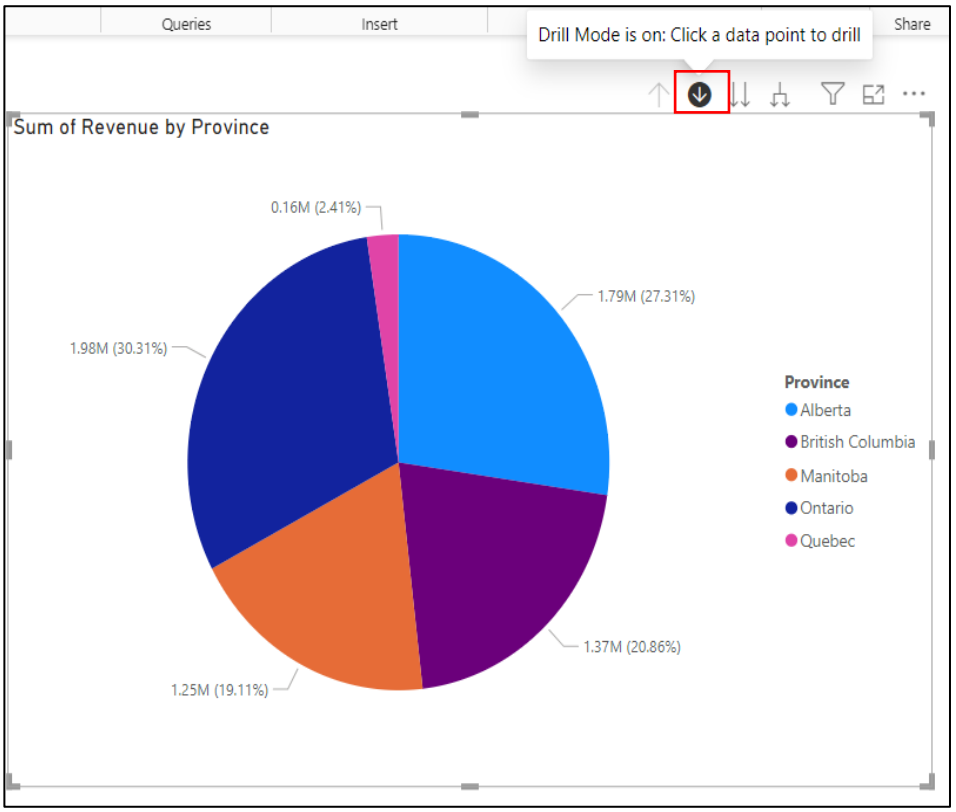

Sum of Revenue by Province, Year and Month
1.92K (15.21%)
2.31K (18.33%)
0.63K (5%)
1.15K (9.17%)
0.73K (5.83%)
3.91K (31.04%)
1.94K (15.42%)
Date Month
March
April
May
June
July
August
October

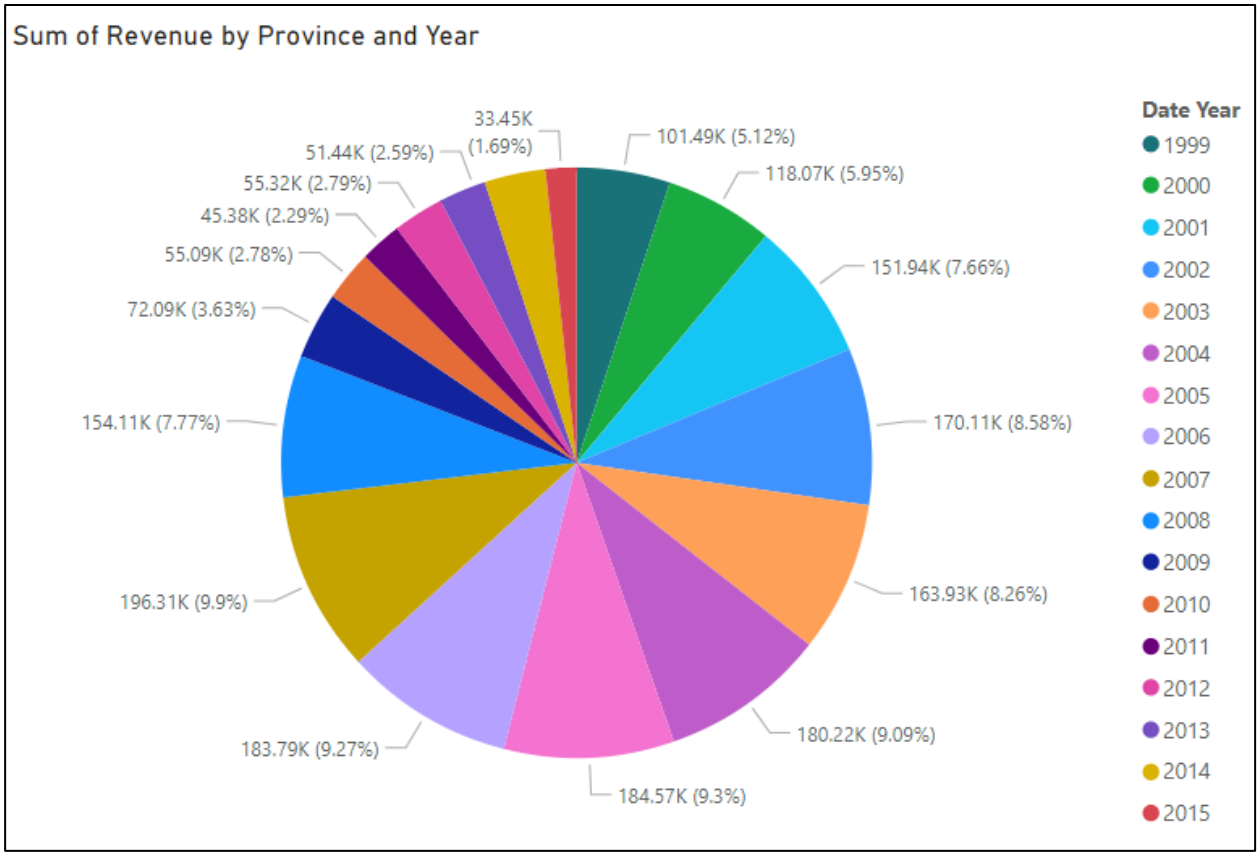


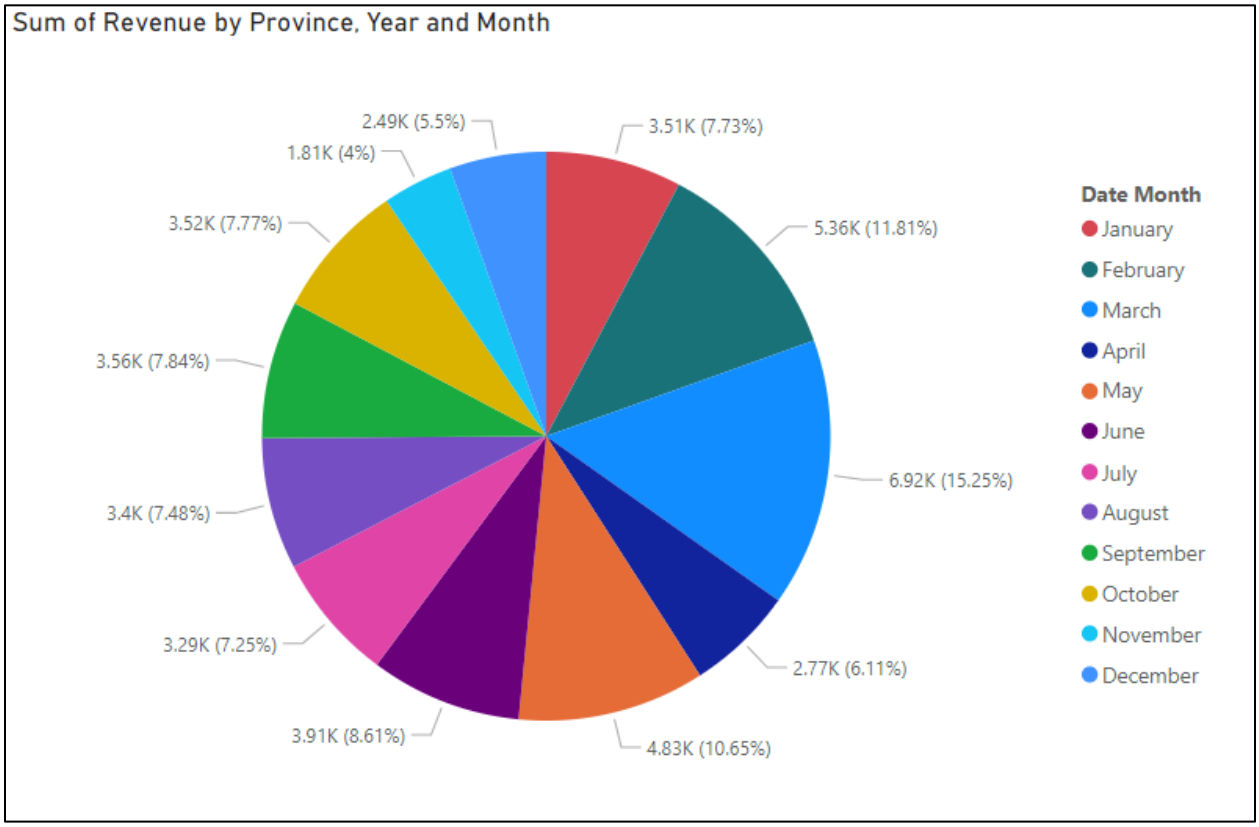
We used the `Drill up` button to go back to the `Sum of Revenue by Province`. We changed the `Manufacturer` to `Natura` and viewed the company's `Sum of Revenue in the Province of Ontario on March 2011` using the same process. The visualization showed that the company's revenue came from three categories (`Urban, Rural and Youth`) and most of them are from `Urban and Rural category`.

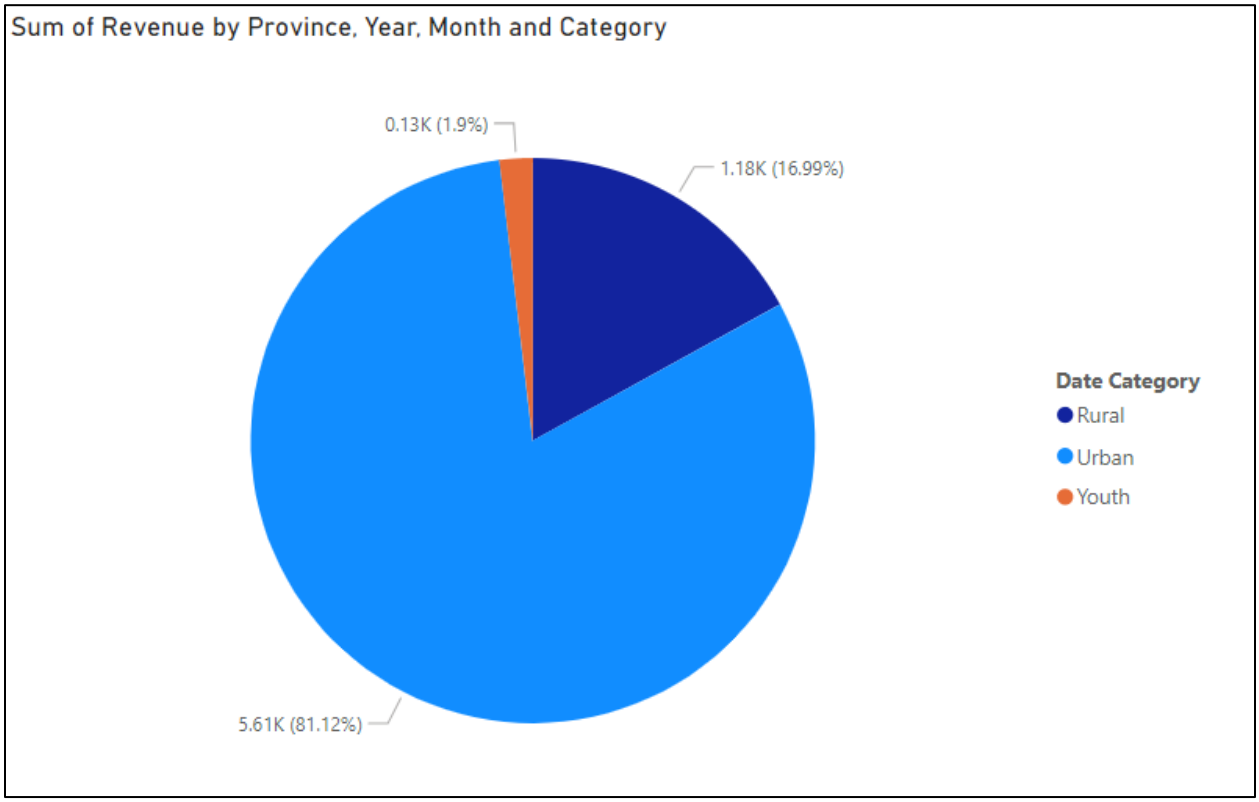

Queries
Insert
Sensitivity
Share
Drill up
Sum of Revenue by Province, Year, Month and Category
Date Category
Urban
2.31K (100%)


Manufacturer
is Natura
Allow drill through when:
Used as category
Search
Abbas 818
Aliqui 13873
Barba 277
Currus 8471
Fama 440
Leo 548
Natura 22068
Palma 99
Pirum 8911


Queries
Insert
Share
Drill Mode is on: Click a data point to drill
Sum of Revenue by Province
0.16M (2.41%)
1.79M (27.31%)
1.98M (30.31%)
1.37M (20.86%)
1.25M (19.11%)
Province
Alberta
British Columbia
Manitoba
Ontario
Quebec

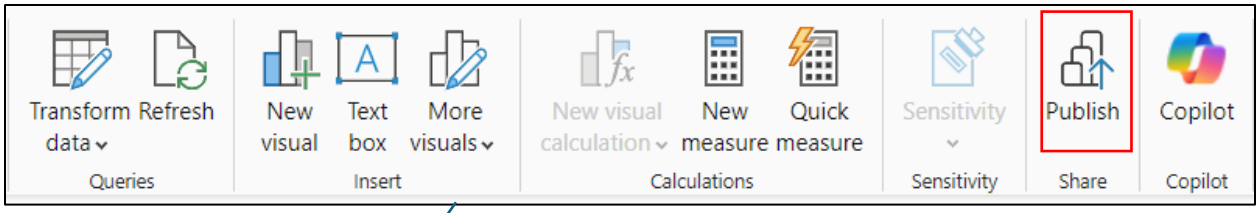

Sum of Revenue by Province and Year
33.45K (1.69%)
101.49K (5.12%)
51.44K (2.59%)
118.07K (5.95%)
55.32K (2.79%)
45.38K (2.29%)
151.94K (7.66%)
55.09K (2.78%)
72.09K (3.63%)
170.11K (8.58%)
154.11K (7.77%)
163.93K (8.26%)
196.31K (9.9%)
180.22K (9.09%)
183.79K (9.27%)
184.57K (9.3%)
Date Year
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015

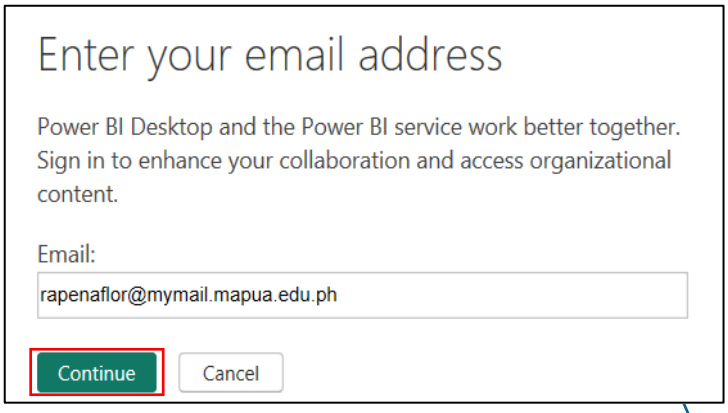

Sum of Revenue by Province, Year and Month
2.49K (5.5%)
3.51K (7.73%)
1.81K (4%)
3.52K (7.77%)
5.36K (11.81%)
3.56K (7.84%)
6.92K (15.25%)
3.4K (7.48%)
3.29K (7.25%)
2.77K (6.11%)
3.91K (8.61%)
4.83K (10.65%)
Date Month
January
February
March
April
May
June
July
August
September
October
November
December

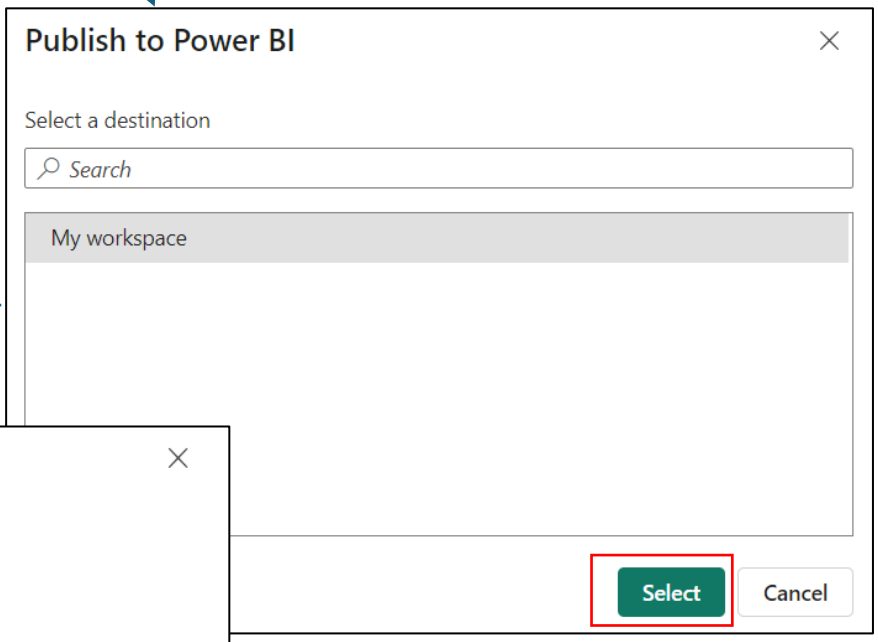


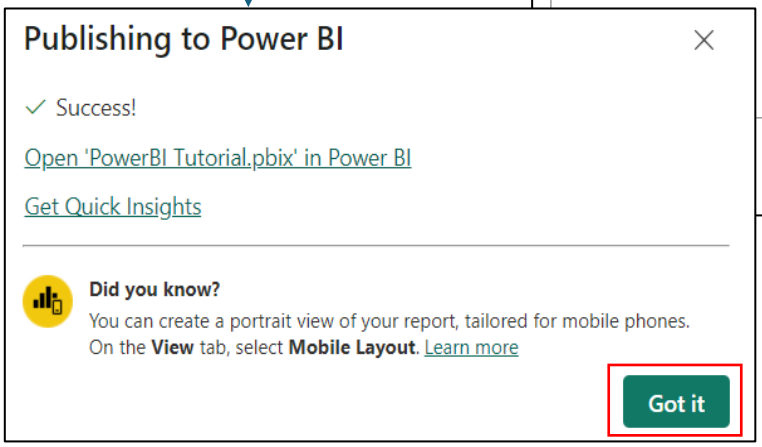
PUBLISHING THE FILE

After we finished with the visualization, we saved the file as a `PowerBITutorial.pbix`. Then on the `Home` menu, we clicked `Publish` to save the file on the cloud. After signing in, we select `My workspace` as the destination to publish our file. Once done, a congratulatory message will appear. To view the published file, we went to the link, `https://app.powerbi.com/home?experience=power-bi`. On the left pane, we clicked `My Workspace` and then the name of our file. The file opened and showed the visualization that we created.


Transform data
Refresh
Queries
New visual
Text box
More visuals
Insert
New visual calculation
New measure
Quick measure
Calculations
Sensitivity
Sensitivity
Publish
Share
Copilot
Copilot


Enter your email address
Power BI Desktop and the Power BI service work better together. Sign in to enhance your collaboration and access organizational content.
Email:
rapenaflor@mymail.mapua.edu.ph
Continue
Cancel


Publish to Power BI
Select a destination
Search
My workspace
Select
Cancel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Open 'PowerBI Tutorial.pbix' in Power BI
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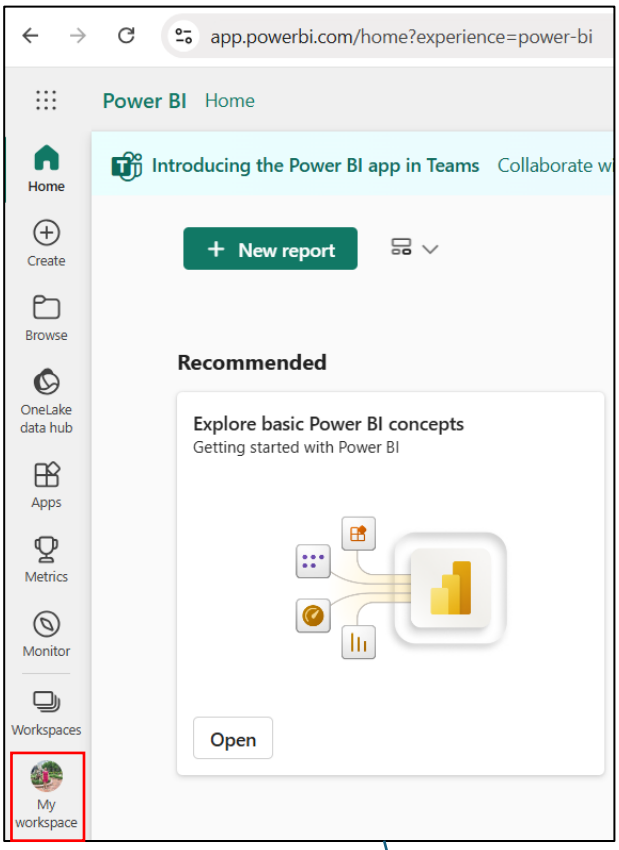
Got it


app.powerbi.com/home?experience=power-bi
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Home
Create
Browse
OneLake data hub
Apps
Metrics
Monitor
Workspaces
My workspace
Introducing the Power BI app in Teams Collaborate w
New report
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Getting started with Power BI
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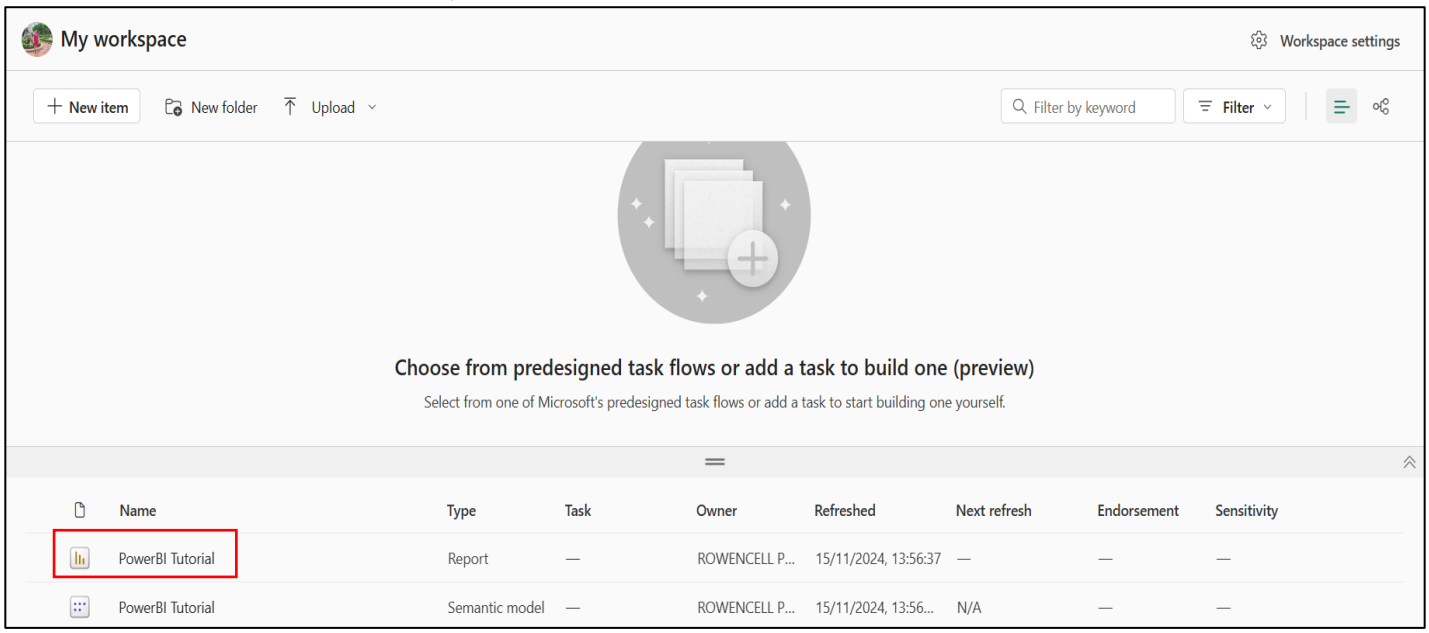
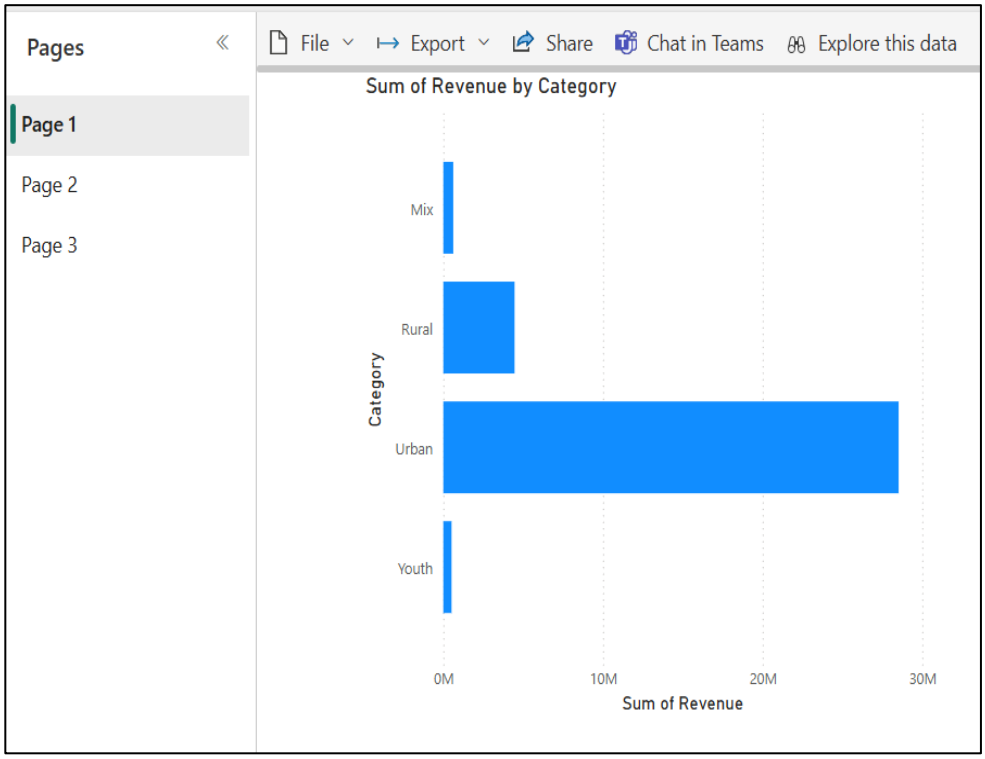

My workspace
Workspace settings
New item
New folder
Upload
Filter by keyword
Filter
Choose from predesigned task flows or add a task to build one (preview)
Select from one of Microsoft's predesigned task flows or add a task to start building one yourself.
Name
Type
Task
Owner
Refreshed
Next refresh
Endorsement
Sensitivity
PowerBI Tutorial
Report
ROWENCELL P...
15/11/2024, 13:56:37
PowerBI Tutorial
Semantic model
ROWENCELL P...
15/11/2024, 13:56...
N/A


Pages
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Page 2
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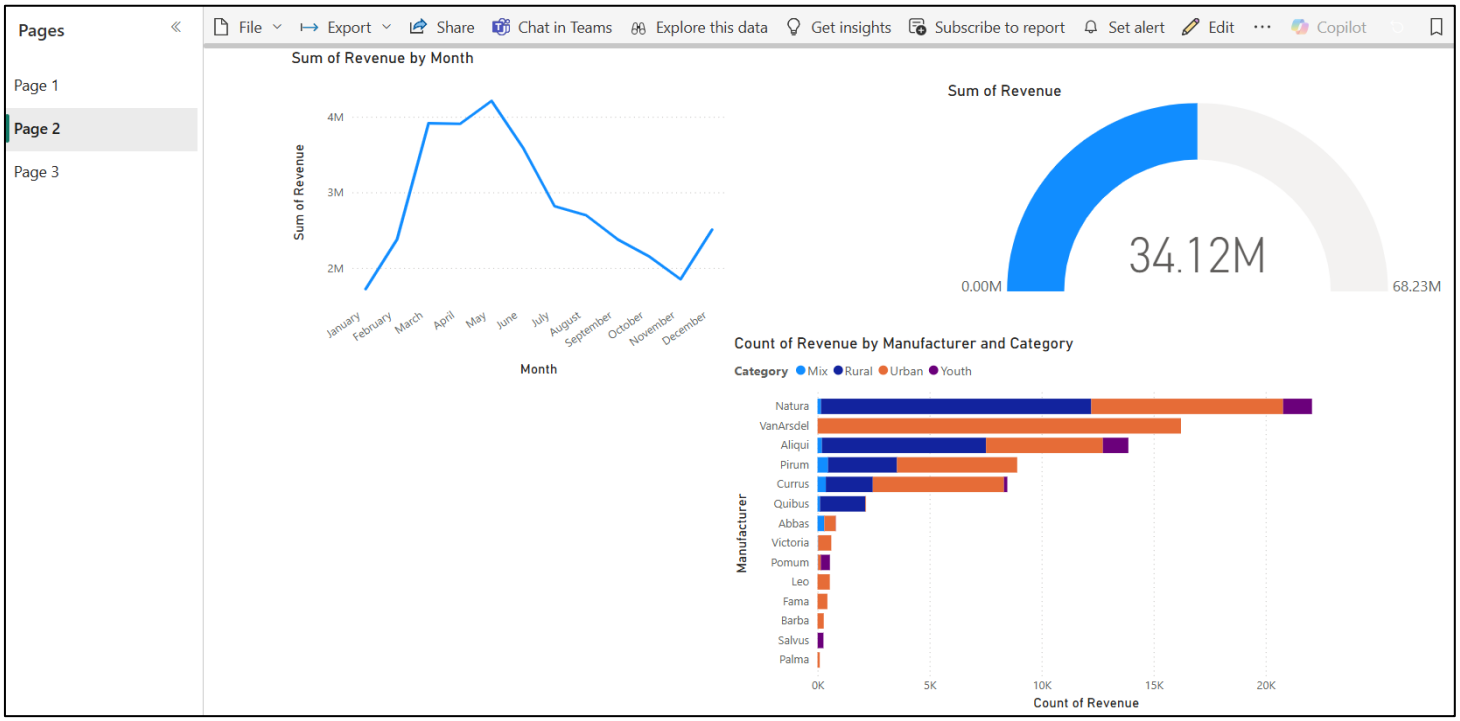
File
Export
Share
Chat in Teams
Explore this data
Sum of Revenue by Category
Mix
Rural
Urban
Youth
Category
0M
10M
20M
30M
Sum of Revenue


Pages
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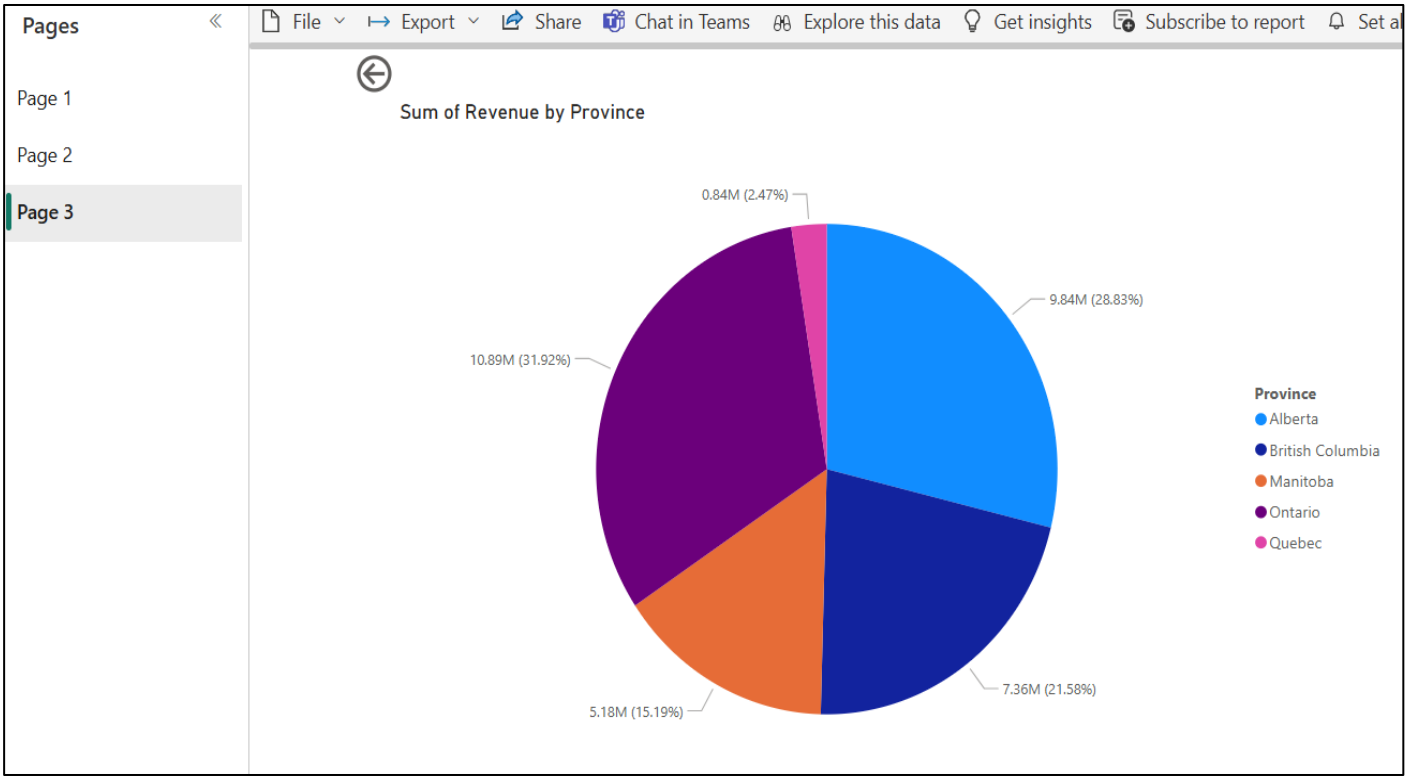
Chat in Teams
Explore this data
Get insights
Subscribe to report
Set alert
Edit
Copilot
Sum of Revenue by Month
4M
3M
2M
Sum of Revenue
January
February
March
April
May
June
July
August
September
October
November
December
Month
Sum of Revenue
34.12M
0.00M
68.23M
Count of Revenue by Manufacturer and Category
Category
Mix
Rural
Urban
Youth
Natura
VanArsdel
Aliqui
Pirum
Currus
Quibus
Abbas
Victoria
Pomum
Leo
Fama
Barba
Salvus
Palma
Manufacturer
0K
5K
10K
15K
20K
Count of Revenue


Pages
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Sum of Revenue by Province
0.84M (2.47%)
9.84M (28.83%)
10.89M (31.92%)
7.36M (21.58%)
5.18M (15.19%)
Province
Alberta
British Columbia
Manitoba
Ontario
Quebec