

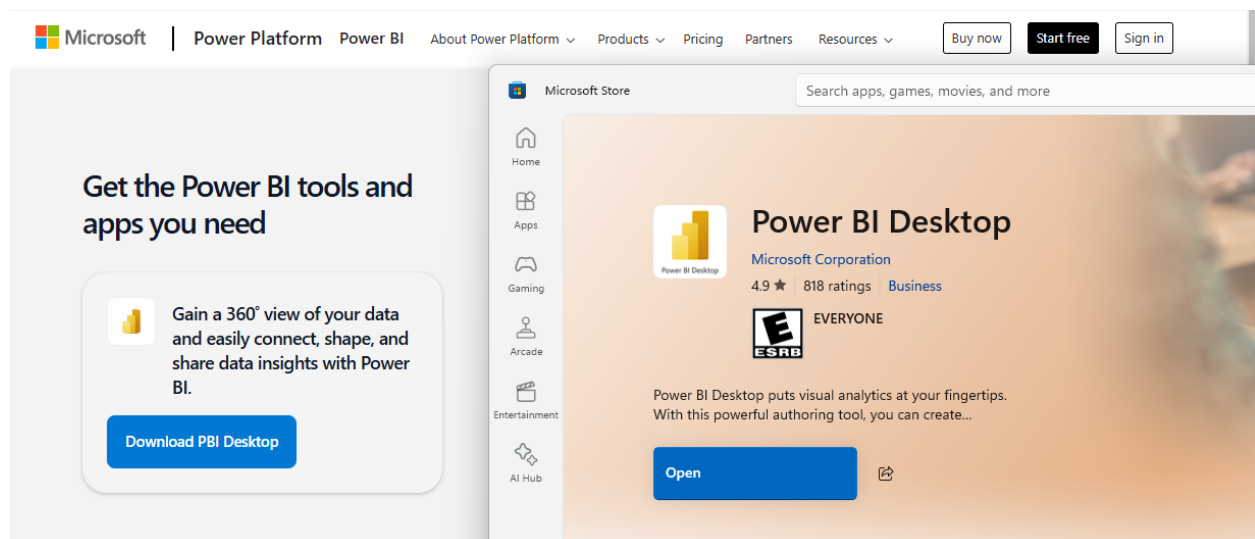
Document highlight:

- Tool installation
- Load and transform the dataset file
 - Data of Professional Working Class survey dataset sampling
- Various data cleanup activities:
 - Removing of empty columns
 - Split data value from a column (and move over into another column)
 - Make a column with a range of data and have it as an average (then do further cleanup of the column data)
 - Add custom column for an average salary (note to remove the other columns and just keep the new column)
- Build data visualization (using Power BI)
- Visualization dashboard

1. Tool installation


Download and install (follow installation guide):

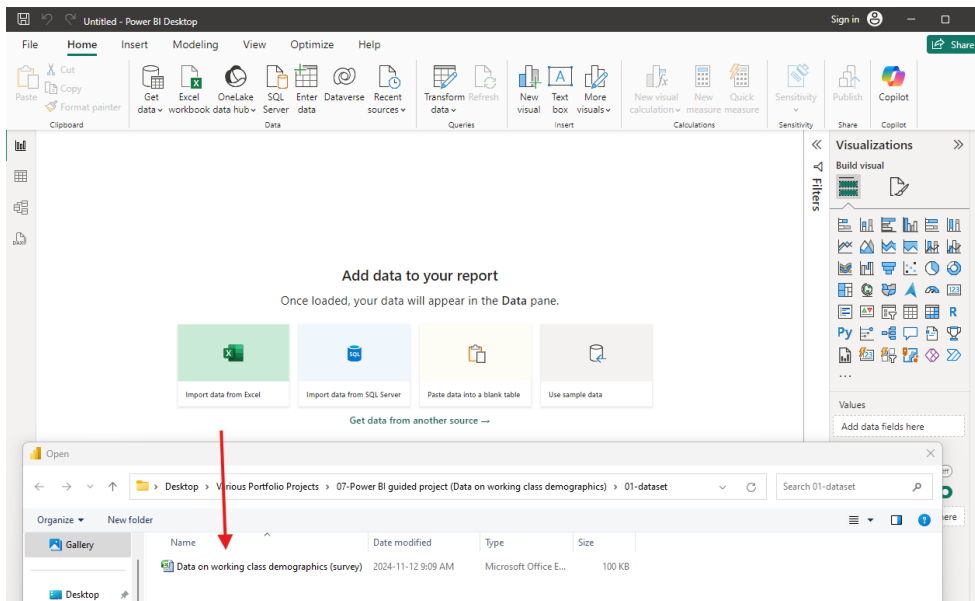
<https://www.microsoft.com/en-us/power-platform/products/power-bi/downloads>



2. Load and transform the dataset file

Sampling dataset:

<input type="checkbox"/> Name	Date modified
 Data on working class demographics (survey)	2024-11-12 9:09 AM



Navigator

Display Options ▾

▾ Data on working class demographics (survey).x...

☑ Data Professional Survey

Data Professional Survey

Unique ID	Email	Date Taken (America/New_York)	Time Taken
62a33b3db4da29969c62df3d	anonymous	2022-06-10	
62a33ba1bae91e4b8b82e35c	anonymous	2022-06-10	
62a33c2cbc6861bf3176bec1	anonymous	2022-06-10	
62a33c8624a26260273822f9	anonymous	2022-06-10	
62a33c91f3072dd892621e03	anonymous	2022-06-10	
62a33cb6cf25554317300177	anonymous	2022-06-10	
62a33cb72e54c9003e531c65	anonymous	2022-06-10	
62a33cd30f8c8599d5af0f8f	anonymous	2022-06-10	
62a33cd3cf255543173001d9	anonymous	2022-06-10	
62a33cd8bc6861bf3176c05f	anonymous	2022-06-10	
62a33ce918134ddc75ce8c30	anonymous	2022-06-10	
62a33cf30a77c1a77f65baa2	anonymous	2022-06-10	
62a33d15f408bae018ed370d	anonymous	2022-06-10	
62a33d1ebae91e4b8b82e707	anonymous	2022-06-10	
62a33d4624a26260273824c4	anonymous	2022-06-10	
62a33d5c0f8c8599d5af107c	anonymous	2022-06-10	
62a33d850f8c8599d5af10cb	anonymous	2022-06-10	

The data in the preview has been truncated due to size limits.

Load Transform Data Cancel

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Columns Remove Columns Reduce Rows Split Column Group By Data Type: Text Use First Row as Headers Replace Values Combine Text Analytics Vision Azure Machine Learning AI Insights

Queries [1] Data Professional Survey

Table.TransformColumnTypes(#Promoted Headers",({Unique ID", type text), ("Email", type text), ("Date Taken (America/New_York)", type date), ("Time Taken (America/New_York)", type time)})

Unique ID	Email	Date Taken (America/New_York)	Time Taken (America/New_York)
62a33b3db4da29969c62df3d	anonymous	2022-06-10	8:38:00 AM
62a33ba1bae91e4b8b82e35c	anonymous	2022-06-10	8:40:00 AM
62a33c2cbc6861bf3176bec1	anonymous	2022-06-10	8:42:00 AM
62a33c8624a26260273822f9	anonymous	2022-06-10	8:43:00 AM
62a33c91f3072dd892621e03	anonymous	2022-06-10	8:44:00 AM
62a33cb6cf25554317300177	anonymous	2022-06-10	8:44:00 AM
62a33cb72e54c9003e531c65	anonymous	2022-06-10	8:44:00 AM
62a33cd30f8c8599d5af0f8f	anonymous	2022-06-10	8:45:00 AM
62a33cd3cf255543173001d9	anonymous	2022-06-10	8:45:00 AM
62a33cd8bc6861bf3176c05f	anonymous	2022-06-10	8:45:00 AM

Query Settings

PROPERTIES

Name

Data Professional Survey

APPLIED STEPS

Source

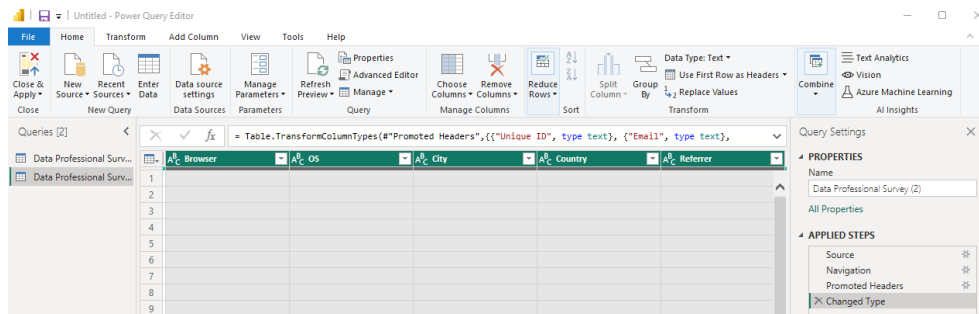
Navigation

Promoted Headers

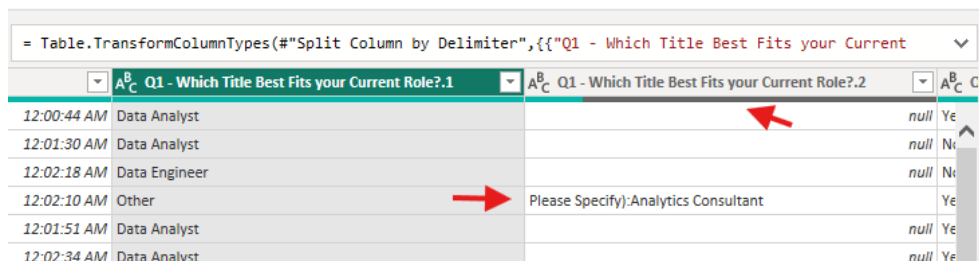
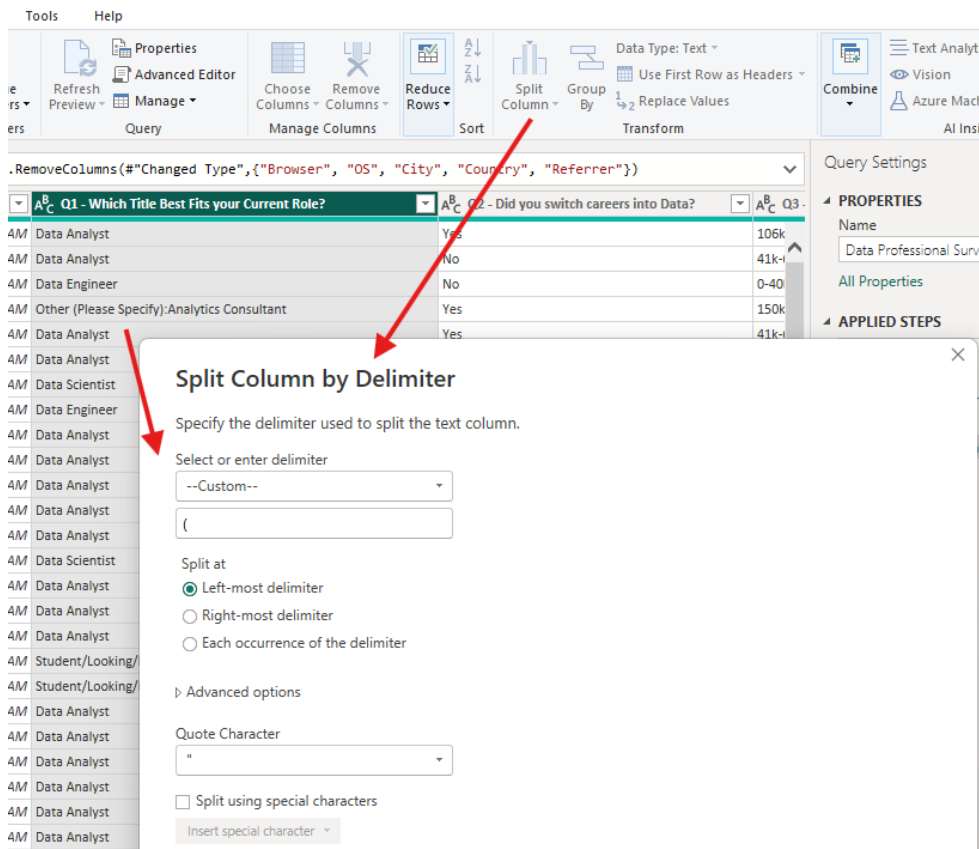
Changed Type

3. Various data cleanup activities

Removing of empty columns



Split data value from a column (and move over into another column)



Run it for other columns with similar data values

```
= Table.TransformColumnTypes("#Split Column by Delimiter2",{{"Q11 - Which Country
```

	A ^B _C Q11 - Which Country do you live in?.1	A ^B _C Q11 - Which Country do you live in?.2	
26	United States		null
36	Canada		null
23	Other	Please Specify):Nigeria	
35	Canada		null
44	United States		null
33	Other	Please Specify):Republic democratic of Congo	
24	Other	Please Specify)	
35	United States		null
35	United States		null
28	United States		null
37	Canada		null
32	Other	Please Specify):Serbia	
34	Other	Please Specify):Argentina	
30	United Kingdom		null
31	United States		null
29	United States		null
22	Other	Please Specify):Niger	
23	United States		null

	A ^B _C Q4 - What Industry do you work in?.1	A ^B _C Q4 - What Industry do you work in?.2	A ^B _C
	Other	Please Specify):Coworking space	Py
	Finance		null Py
	Other	Please Specify):Retail	Ot
	Healthcare		null R
	Telecommunication		null Py
	Other	Please Specify):Logistics	Py
	Other	Please Specify):lgaming	Py
	Tech		null R
	Education		null Py
	Construction		null R

Reduce Rows Sort Split Column Group By Data Type: Text Use First Row as Headers Transform Combine Text Analytics Vision Azure Machine Learning AI Insights

title Best Fits your Current Role?.2"))

Q5 - Favorite Programming Language

Python
Python
Other:Mostly use sql but that's not programming language..
Python
Python
Python
Python
Other:SQL
Python
Other:Qlik sen
R
Python
Python
Python
Other:SQL
Python
Python
Python
Other:sql
Python
Python
Other:Power b
JavaScript

Query Settings

PROPERTIES

Name

Data Professional Survey (2)

All Properties

APPLIED STEPS

Split Column by Delimiter

Specify the delimiter used to split the text column.

Select or enter delimiter

Colon

Split at

- ☐ Left-most delimiter
- ☐ Right-most delimiter
- ☒ Each occurrence of the delimiter

Advanced options

Quote Character

"

☐ Split using special characters

Insert special character

fx = Table.TransformColumnTypes("#Split Column by Delimiter1",{{"Q5 - Favorite Programming Language.1",

Q5 - Favorite Programming Language.1 Q5 - Favorite Programming Language.2 Q6 - How Happy are you in your Current Role?

Python		
Python		
Other	SQL	
R		
Python		
Python		
Python		
R		
Python		

Make a column with a range of data and have it as an average (then do further cleanup of the column data)

The screenshot shows the Power Query Editor interface. The 'Transform' tab is active, and the 'Split Column' button is highlighted. A red arrow points to the 'Split Column' button. The 'Split Column' dropdown menu is open, showing options: 'By Delimiter', 'By Number of Characters', 'By Positions', 'By Lowercase to Uppercase', 'By Uppercase to Lowercase', 'By Digit to Non-Digit', and 'By Non-Digit to Digit'. A red arrow points to 'By Digit to Non-Digit'. A tooltip for 'Split Column by Digit to Non-Digit' is visible, stating: 'Split values in the selected column based on transitions from a digit to a non-digit character.'

The screenshot shows the Power Query Editor interface. The formula bar contains the formula: `= Table.SelectRows("Duplicated Column", "Q3 - Current Yearly Salary (in USD) - Copy", ...)`. The data table is displayed below, showing the results of the split operation. The table has three columns: 'Q3 - Current Yearly Salary (in USD) - Copy.1', 'Q3 - Current Yearly Salary (in USD) - Copy.2', and 'Q3 - Current Yearly Salary (in USD) - Copy.3'.

	Q3 - Current Yearly Salary (in USD) - Copy.1	Q3 - Current Yearly Salary (in USD) - Copy.2	Q3 - Current Yearly Salary (in USD) - Copy.3
1	106	k-125	k
2	41	k-65	k
3	0	-40	k
4	150	k-225	k
5	41	k-65	k
6	0	-40	k
7	0	-40	k

The screenshot shows the Power Query Editor interface. The formula bar contains the formula: `= Table.SelectRows("Replaced Value2", each true)`. The data table is displayed below, showing the results of the split operation. The table has three columns: 'Q3 - Current Yearly Salary (in USD).1', 'Q3 - Current Yearly Salary (in USD).2', and 'Q4 - W'.

	Q3 - Current Yearly Salary (in USD).1	Q3 - Current Yearly Salary (in USD).2	Q4 - W
1	106	125	Healthcare
2	41	65	Finance
3	0	40	Other (Ple
4	150	225	Finance
5	41	65	Healthcare
6	0	40	Other (Ple
7	0	40	Finance
8	125	150	Other (Ple
9	86	105	Healthcare
10	41	65	Telecomm
11	66	85	Other (Ple

Add custom column for an average salary (note to remove the other columns and just keep the new column)

Table.RenameColumns(#"Removed Columns2",{"Custom", "Average Salary"})

Custom Column

Add a column that is computed from the other columns.

New column name

Average Salary

Custom column formula

= ([#"Q3 - Current Yearly Salary (in USD).1"] + [#"Q3 - Current Yearly Salary (in USD).2"]) / 2

Available columns

- Time Spent
- Q1 - Which Title Best Fits your...
- Q1 - Which Title Best Fits your...
- Q2 - Did you switch careers in...
- Q3 - Current Yearly Salary (in...
- Q3 - Current Yearly Salary (in...
- Average Salary

Queries [1]

Data Professional Sur...

Q2 - Did you switch careers into Data?

Average Salary

1	115.5
2	53
3	20
4	187.5
5	53
6	20
7	20
8	137.5
9	95.5
10	53
11	75.5
12	20

When done, close and apply

File

Close & Apply

New source

Recent Sources

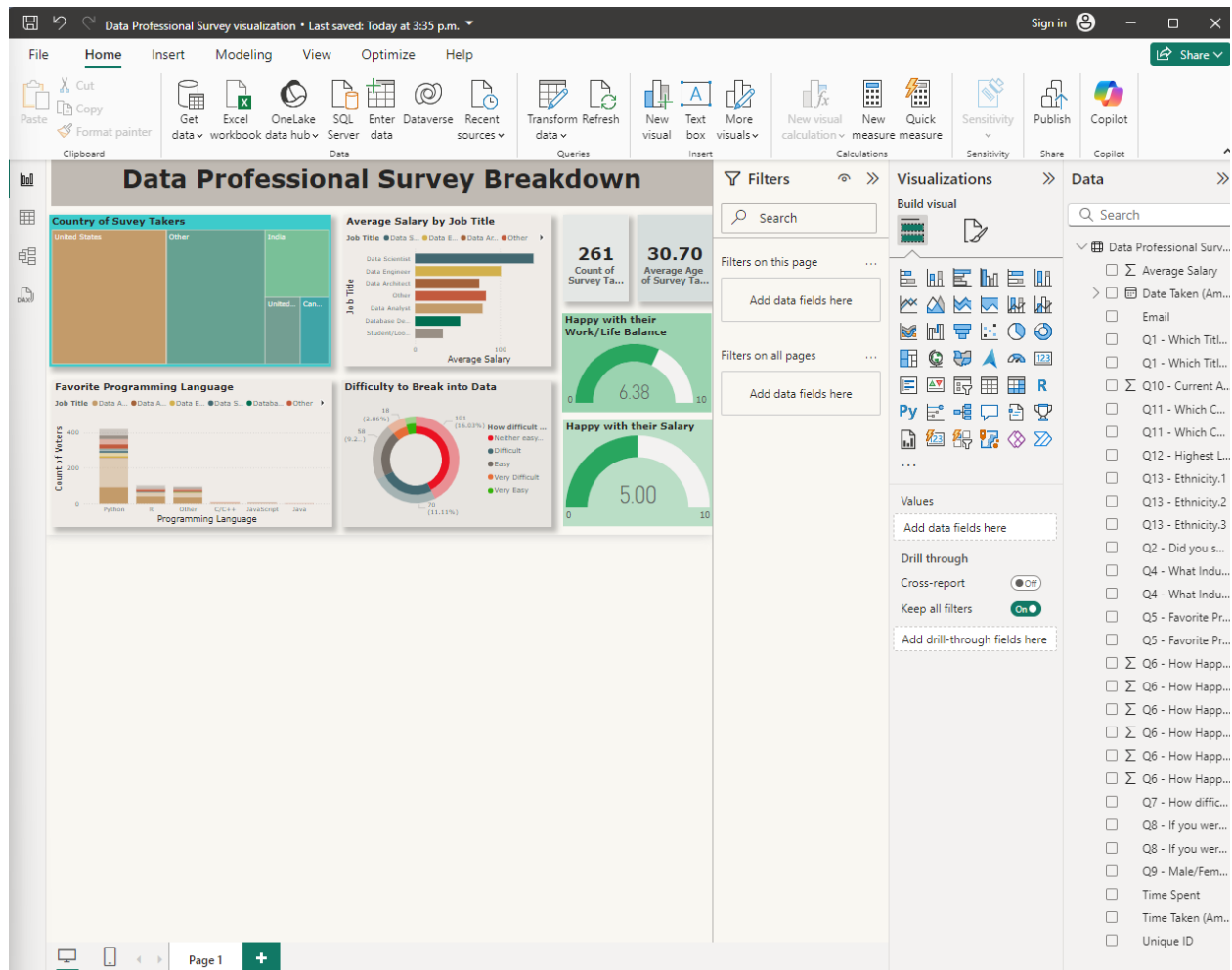
Enter Data

Data source settings

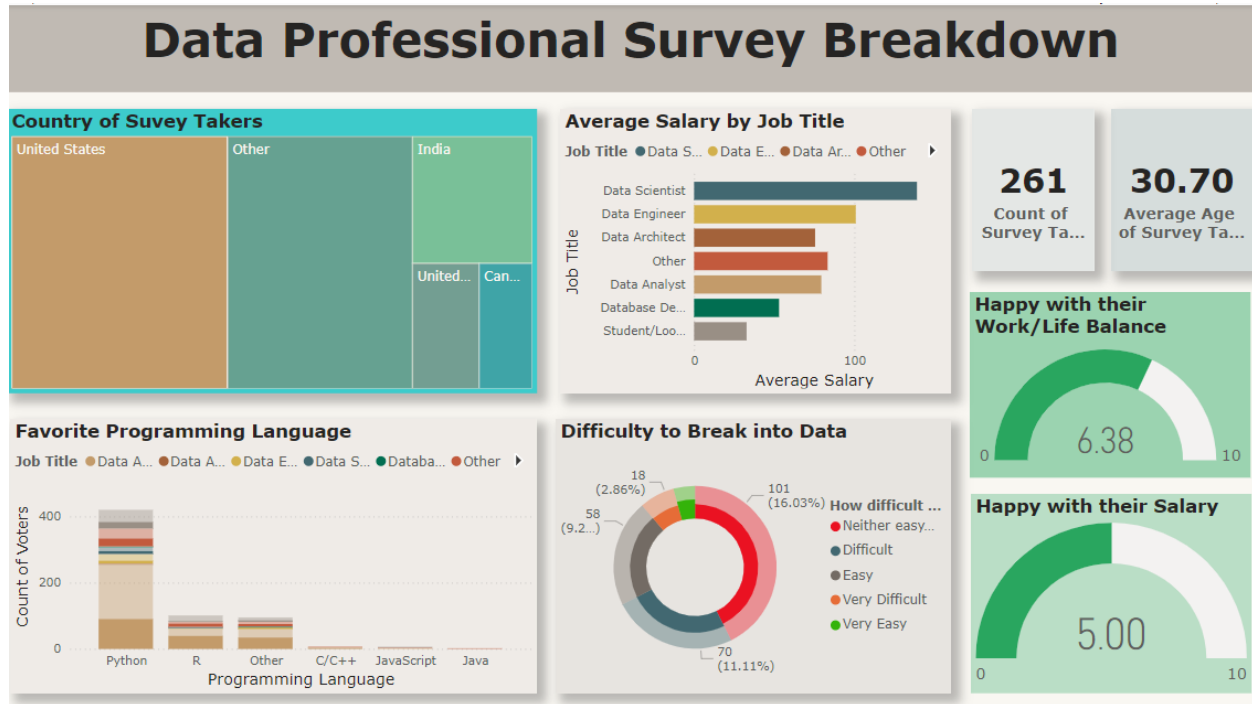
New Query

Data Sources

4. Build data visualization



5. Visualization dashboard



*****END*****