



Power BI Introduction

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International Association Crime Analysts

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INSTRUCTOR



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CONTENTS

Introduction to Power BI

- ✓ *What is Power BI*
- ✓ *Why should we use Power BI*
- ✓ *Examples*
- ✓ *Where to start*

Additional Information

Conclusion and QA

WHAT IS POWER BI

Power BI is a unified, scalable platform for self-service and enterprise *business intelligence* (BI).

IT HELPS TO:

Connect to

and

visualize any data,

and

seamlessly infuse the visuals into the apps you use every day.

WHAT IS POWER BI

DESKTOP

Users can download an application for Windows 10, called Power BI Desktop, and native mobile apps for Windows, Android, and iOS devices.

DESKTOP FOR SERVICE

There is also Power BI Report Server for companies that must maintain their data and report on-premises. That version of Power BI requires a particular version of the desktop app -- aptly called Power BI Desktop for Power BI Report Server.

<https://www.techtarget.com/searchcontentmanagement/definition/Microsoft-Power-BI>

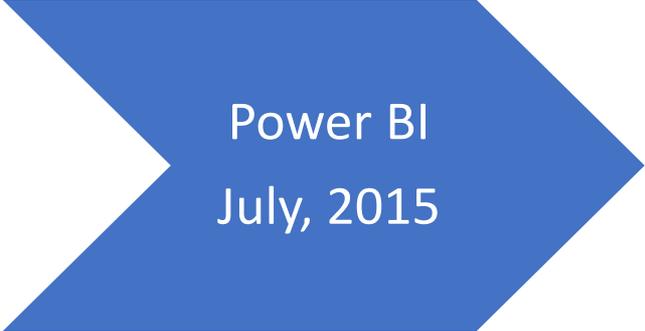
POWER BI UPDATES OVER TIME



Project
Crescent
July, 2011

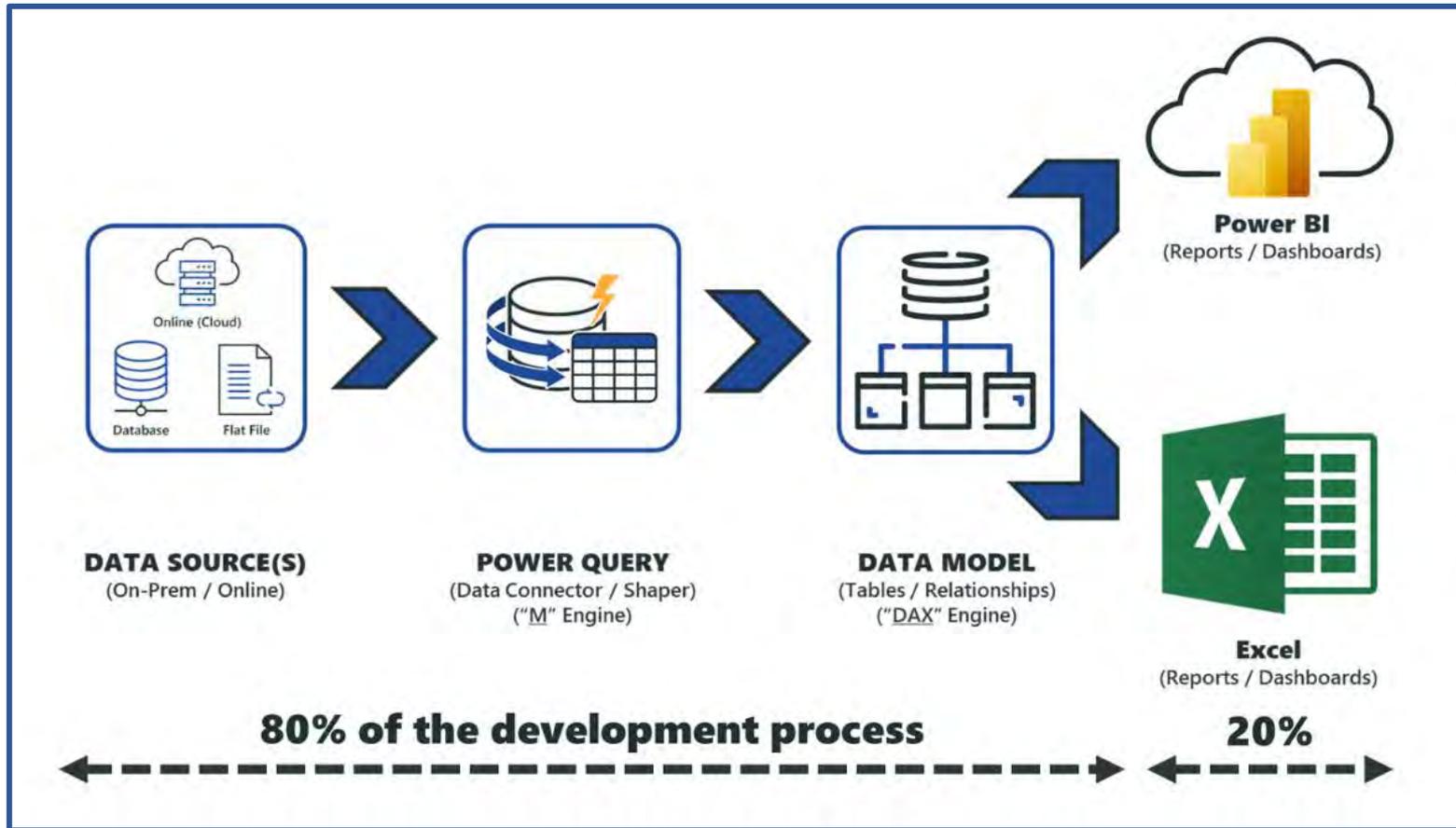


Power BI part
of Office 365
September ,
2013

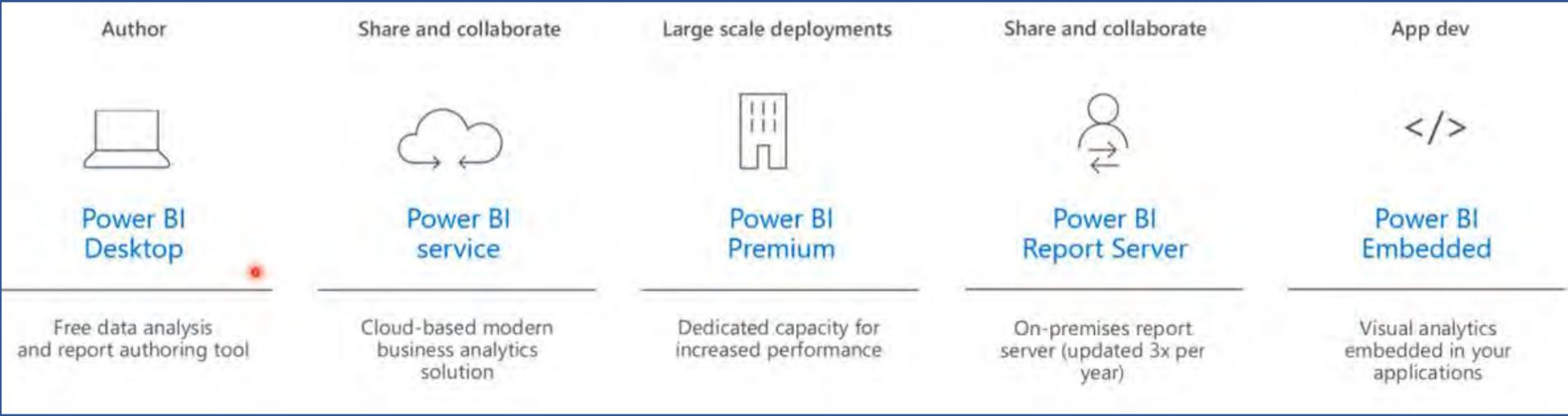


Power BI
July, 2015

WHAT IS POWER BI



POWER BI - PRODUCT PORTFOLIO



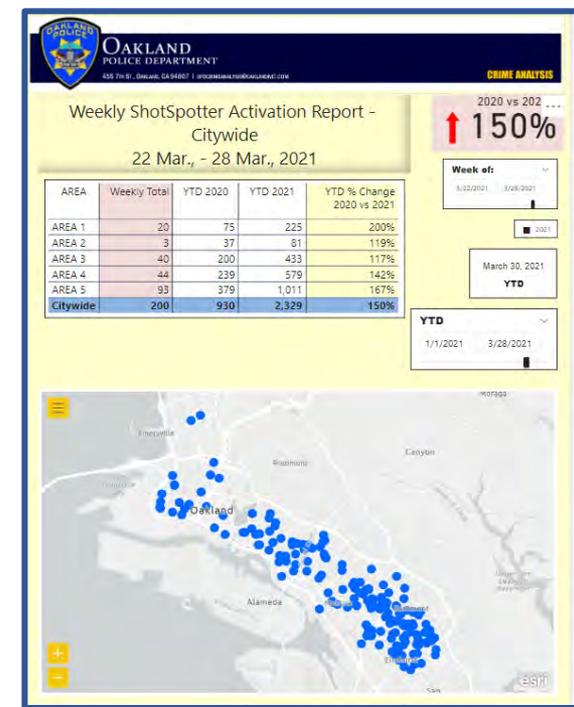
POWER BI - PRODUCT PORTFOLIO

Some Key Components

- ✓ Power BI Desktop
- ✓ Power BI Service
- ✓ Power BI Mobile Apps
- ✓ Power BI Embedded
- ✓ Power BI Report Server
- ✓ Power BI Premium
- ✓ Power BI Visuals Marketplace

WHY SHOULD WE USE POWER BI

- ✓ Store large amounts of data
- ✓ Works for visualizations and online features
- ✓ Ideal for dashboards, KPI (key performance indicator), and alerts



March 30, 2021

2,367 ↑

2020 YTD: 950 (+149.16%)

WHY SHOULD WE USE POWER BI

The data models created from Power BI can be used for:

- ✓ telling stories through charts and data visualizations
- ✓ examining "what if" scenarios within the data
- ✓ creating reports that can answer questions in real-time
- ✓ help with forecasting to make sure departments meet specific metrics.

POWER BI EXAMPLES – MONTHLY REPORT

OAKLAND POLICE DEPARTMENT
HOMICIDE SECTION
MONTHLY STATISTICAL REPORT

Select Current Year and YTD Months

Current Year: 2018, 2019, 2020, 2021, **2022**

YTD Months: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec

Select 5 Years and YTD Months

Year: 2018, 2019, 2020, 2021, 2022

YTD Mo...: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec

Select 5 Years and Current Month

Year: 2018, 2019, 2020, 2021, 2022

Curr...: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec

Report Current Month - Power BI Desktop (September 2021)

File Home Insert Modeling View Help

Clipboard Data Queries Insert Calculations Share

Filters

Filters on this page

Filters on all pages

Type is Not UCR or UCR

Selections x Title Page 5 Years UCR Cleared UCR Cleared Rate UCR Cleared List Cleared by Year Cleared Rate by Year Classif1 Dispo_Location Weapon2 Gang Gang2 Gang Cases

page 1 of 25

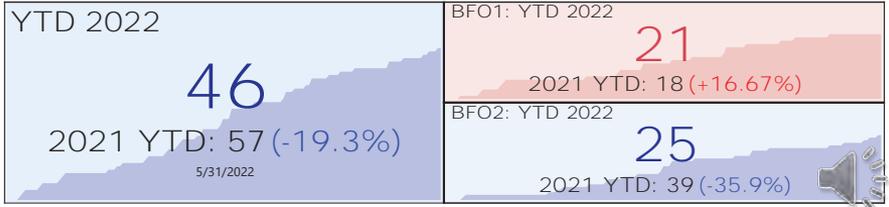
POWER BI EXAMPLES – MONTHLY REPORT (PDF)

OAKLAND POLICE DEPARTMENT
HOMICIDE SECTION
MONTHLY STATISTICAL REPORT



January to
May 2022

Prepared by: Crime Analyst Svetlana Gubin



POWER BI EXAMPLES – DASHBOARD ONE PAGE



OAKLAND POLICE DEPARTMENT

455 7th St., Oakland, CA 94607 | OPDCRIMEANALYSIS@OAKLANDNET.COM

CRIME ANALYSIS

June 20, 2021
YTD

RESET

?

SHOTS
SPOTTER

AREA	LAST 7 DAYS	2020 YTD	2021 YTD	YTD % Change 2021 vs 2020
AREA 1	8	194	446	130%
AREA 2	2	100	148	48%
AREA 3	24	418	804	92%
AREA 4	31	585	1,087	86%
AREA 5	63	960	1,865	94%
Total	128	2,257	4,350	93%

2021

4,350 Activations YTD

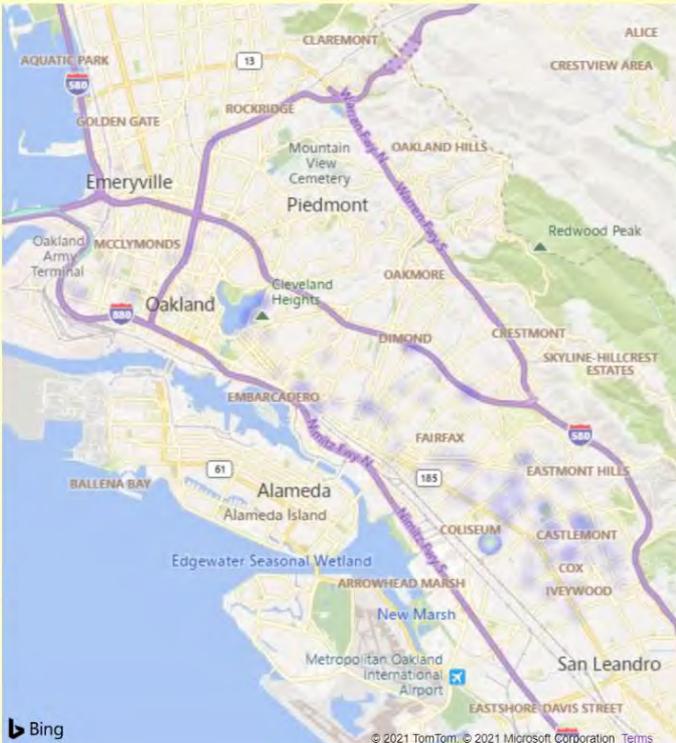
19,079 Rounds YTD

93%

Trend 2021 vs 2020

↑

Heat Map Last 7 Days



© 2021 TomTom, © 2021 Microsoft Corporation [Terms](#)

Temporal Heat Index Last 7 Days

DOW	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Mon	0	3	0	0	0	1	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	7
Tue	2	1	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	9
Wed	1	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	1	1	1	14
Thu	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	4	1	20
Fri	4	0	1	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	2	2	0	0	0	14
Sat	4	4	4	6	0	1	0	0	1	0	0	1	0	0	1	3	0	1	1	5	1	5	0	0	39
Sun	5	6	2	1	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	2	0	5	0	25
Total	25	22	10	8	1	4	0	0	1	1	0	3	2	5	0	0	3	2	5	0	3	6	13	14	128

Time of Day Last 7 Days



Day of Week Last 7 Days



Report

POWER BI EXAMPLES – DASHBOARD MULTIPLE PAGES



OAKLAND
POLICE DEPARTMENT
455 7th St., Oakland, CA 94607 | ops@oakland.net | oakland.net

CRIME ANALYSIS

ARRESTS 2019 – 2022

5/18/2022 6:15:00

Last Date of Arrest

[Stats](#) [Arrests](#) [Juveniles](#) [Search](#)



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POWER BI – WHERE TO START

<https://www.microsoft.com/en-us/download/details.aspx?id=58494>

Microsoft Power BI Desktop

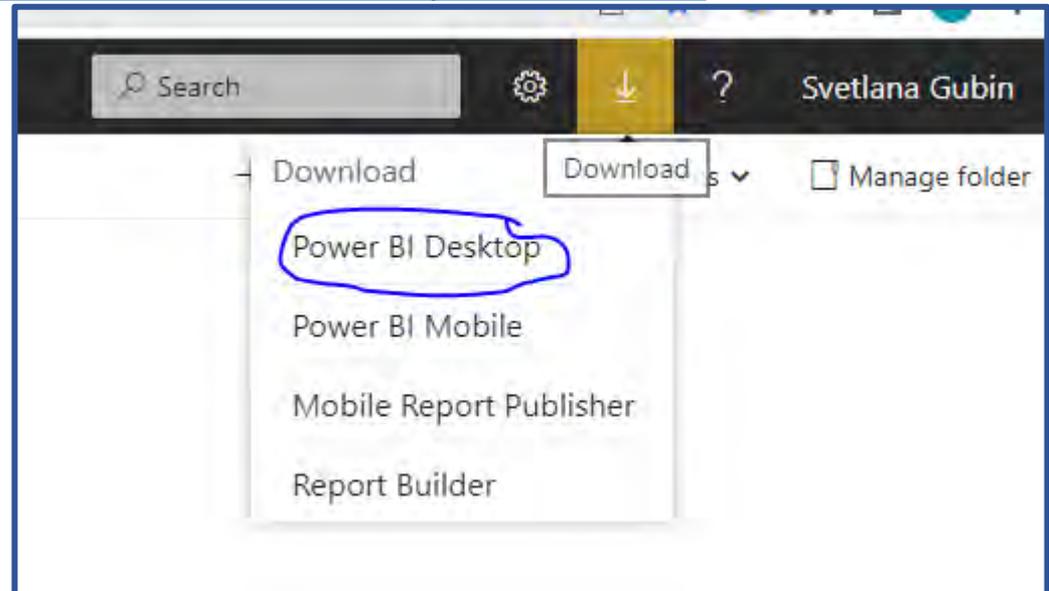
Important! Selecting a language below will dynamically change the complete page content to that language.

Select Language:

English

Download

<https://www.microsoft.com/en-us/download/details.aspx?id=56722>



DOWNLOADING

POWER BI – WHERE TO START

File H
Paste Copy For Clipboard
AU
Data

Power BI Desktop

Power BI has recovered files that you might want to keep

Show recovered files

Get data

Recent sources

sample.pbix
C: » Users » svetl » Desktop » CCIAA

SFPD_2018_20201127.pbix
C: » Users » svetl » Desktop » PO...

Open other reports

Search

Svetlana Gubin

Svetlana Gubin

WHAT'S NEW

Take a look at what's new and improved in Power BI in this month's update.

FORUMS

Visit the Power BI Forum to ask questions or interact with other users in the Power BI community.

POWER BI BLOG

Keep up to date with the latest news, resources, and updates from the Power BI team.

TUTORIALS

Ready to learn more about Power BI?

- Get started with Power BI Desktop
- Download a sample
- Watch our training videos
- See what others have built
- All guided learning

VIEW ALL VIDEOS

✓ Show this screen on startup

Page 1 of 1 63%

ENTRY PAGE

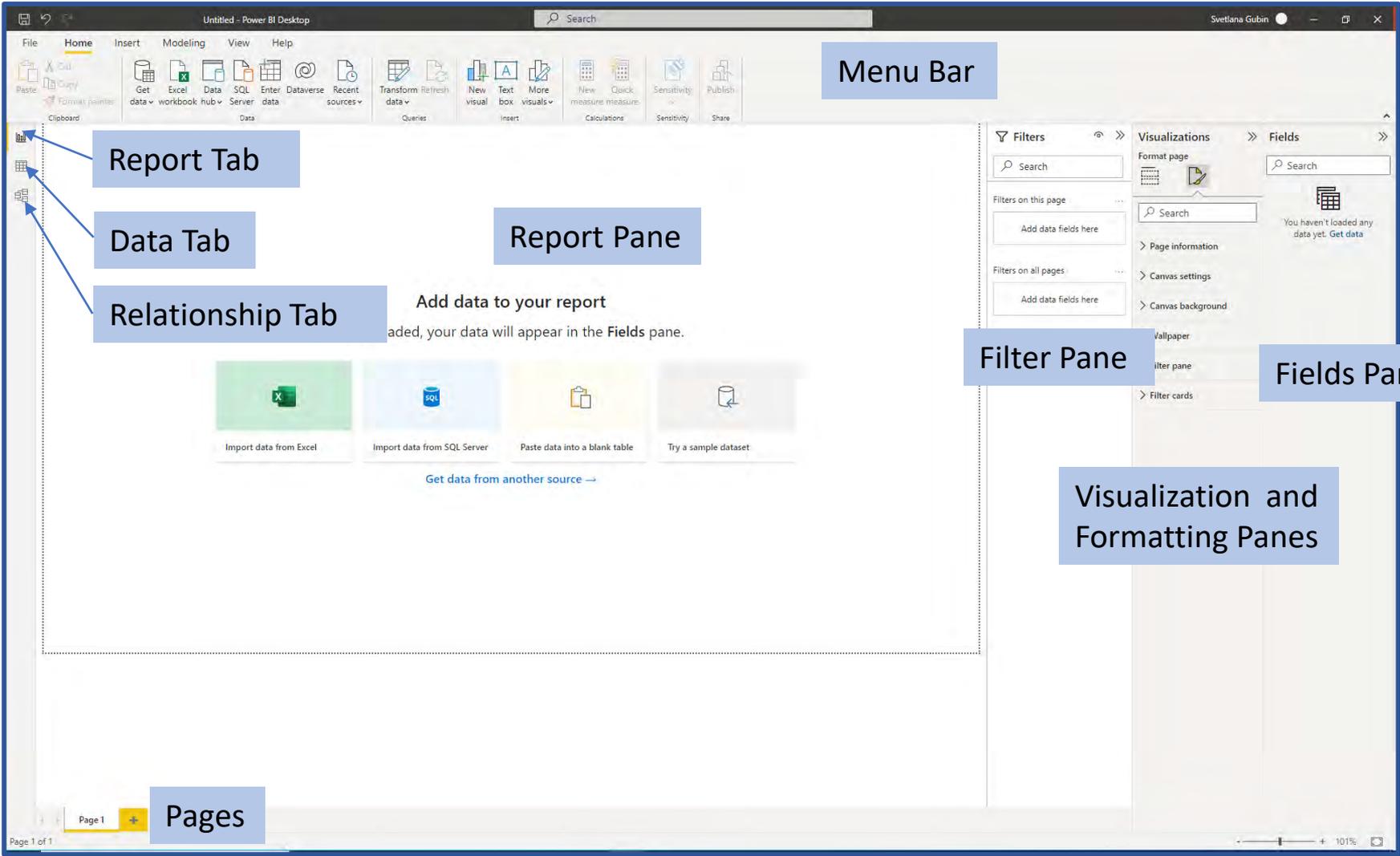
POWER BI – WHERE TO START

The screenshot shows the Microsoft Power BI Desktop application interface. The top ribbon contains several tabs: Home, Insert, Modeling, View, Optimize, and Help. The 'About' tab is highlighted with a red circle. Below the ribbon, a map of Northgate is visible. A dialog box titled 'Microsoft Power BI Desktop' is open, displaying the following information:

- Microsoft Power BI Desktop is a companion product to app.powerbi.com.
- Version: 2.118.665.0 64-bit (June 2023)** (circled in red)
- User ID: 09f73dd3-3279-4398-8c5d-f75904c5953a
- Session ID: e0f51e44-8471-486e-aedd-b63dd155fdb9
- Copy session diagnostics to clipboard
- [Privacy Statement](#)
-

VERSION

POWER BI – WHERE TO START



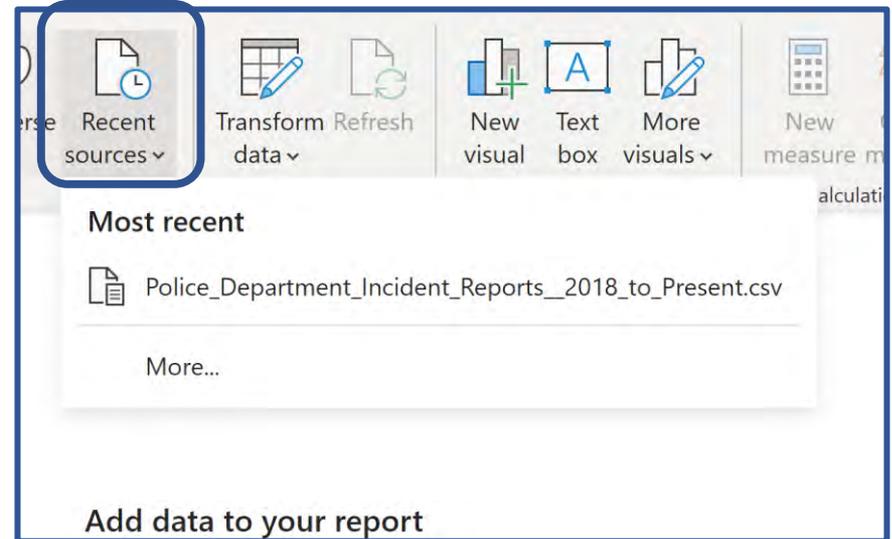
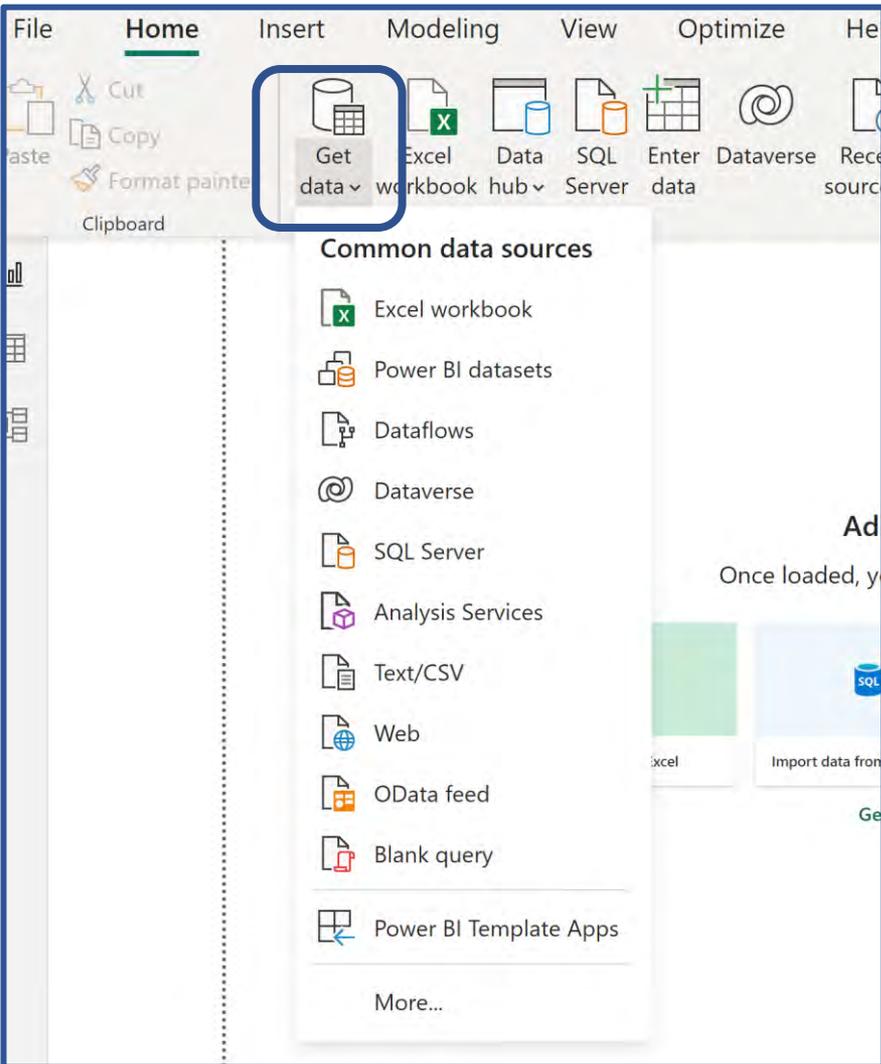
MAIN PAGE

POWER BI – WHERE TO START

The screenshot displays the Microsoft Power BI Desktop application window. The title bar shows 'Untitled - Power BI Desktop' and the user 'Svetlana Gubin'. The ribbon is set to 'Home', with sub-ribbons for 'Insert', 'Modeling', 'View', 'Optimize', 'Help', and 'External tools'. The 'Home' ribbon includes several groups of icons: 'Clipboard' (Paste, Copy, Format painter), 'Get data' (Excel workbook, Data hub, SQL Server, Enter data, Datasource, Recent sources), 'Transform data', 'Refresh data', 'New visual', 'Text box', 'More visuals', 'New measure', 'Quick measure', 'Sensitivity', and 'Publish'. A blue box highlights the 'Get data' group. The main workspace area contains the text 'Add data to your report' and 'Once loaded, your data will appear in the Data pane.' Below this text are four buttons: 'Import data from Excel', 'Import data from SQL Server', 'Paste data into a blank table', and 'Try a sample dataset'. At the bottom of the workspace is a link 'Get data from another source'. On the right side, the 'Visualizations' pane is open, showing 'Build visual' options and a grid of visualization icons. Below the grid are sections for 'Values' (with an input field 'Add data fields here'), 'Drill through' (with 'Cross-report' set to 'Off' and 'Keep all filters' set to 'On'), and 'Add drill-through fields here'. The bottom status bar shows 'Page 1 of 1', a '+' button, and a zoom level of '63%'.

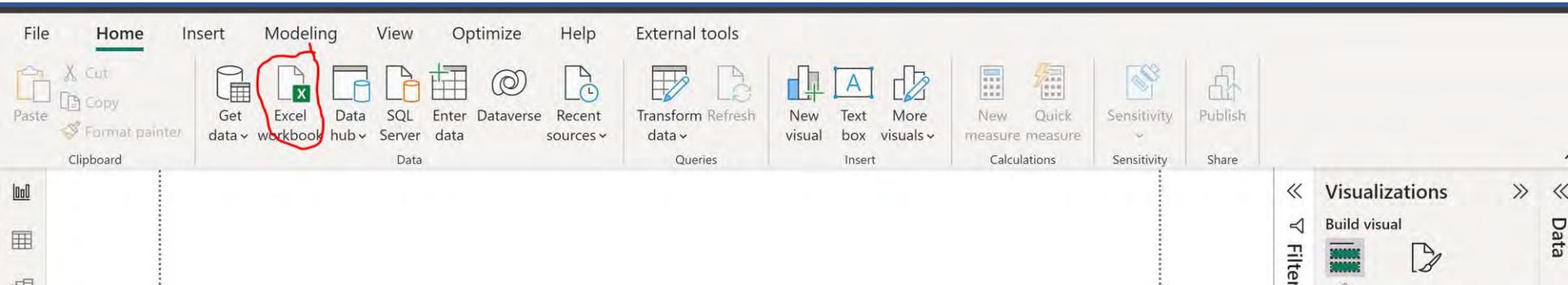
LET'S START

POWER BI – WHERE TO START



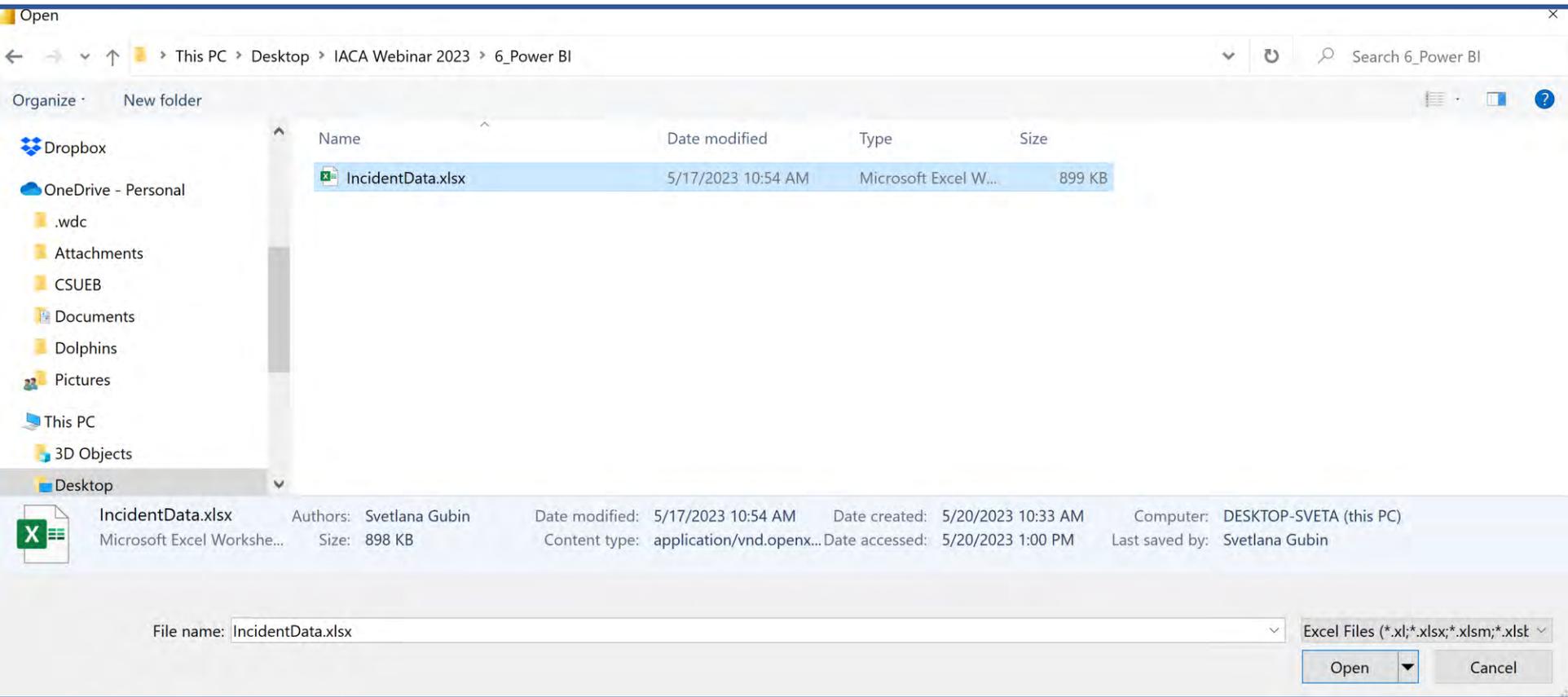
SOURCES

POWER BI – WHERE TO START



CONNECT EXCEL

POWER BI – WHERE TO START



CONNECT EXCEL FILE

POWER BI – WHERE TO START

Navigator

Display Options ▾

IncidentData.xlsx [6]

- Data
- DescTable1
- Updating2
- DescTable
- Incidents
- Updating

Data

Incident Datetime	Report Datetime	Incident ID	Incident Number
1/1/2020 12:00:00 AM	6/23/2021 3:16:00 PM	1043121	21039
1/1/2020 12:00:00 AM	6/23/2021 1:49:00 PM	1042957	21039
1/1/2020 12:00:00 AM	3/15/2022 12:50:00 PM	1131074	22012
1/1/2020 12:00:00 AM	12/30/2021 2:00:00 PM	1107459	21086
1/1/2020 12:00:00 AM	3/23/2022 8:59:00 AM	1133319	22012
1/1/2020 12:00:00 AM	5/16/2022 3:17:00 PM	1150849	22031
1/1/2020 12:00:00 AM	5/17/2022 9:48:00 AM	1151149	22032
1/1/2020 12:00:00 AM	4/18/2022 6:00:00 PM	1142074	22025
1/1/2020 12:00:00 AM	4/22/2022 7:28:00 AM	1143304	22025
1/1/2020 12:00:00 AM	7/25/2022 10:45:00 AM	1174461	22049
1/1/2020 12:00:00 AM	7/27/2022 1:20:00 PM	1177735	22031
1/1/2020 12:00:00 AM	8/3/2022 9:06:00 AM	1177744	22032
1/1/2020 12:00:00 AM	8/8/2022 2:46:00 PM	1179354	22052
9/24/2020 12:00:00 AM	9/26/2020 11:51:00 AM	965495	20613
9/24/2020 12:00:00 AM	9/25/2020 11:40:00 AM	964514	20613
9/24/2020 12:00:00 AM	9/30/2020 2:57:00 PM	965667	20058
9/24/2020 12:00:00 AM	10/15/2020 8:56:00 AM	969721	20062
9/24/2020 12:00:00 AM	9/24/2020 7:11:00 AM	965226	20613
9/24/2020 12:00:00 AM	9/24/2020 12:50:00 AM	972414	20614
9/24/2020 12:00:00 AM	9/24/2020 12:55:00 PM	964187	20057
9/24/2020 12:01:00 AM	9/24/2020 12:09:00 PM	964317	20057
9/24/2020 12:01:00 AM	9/24/2020 12:09:00 PM	964317	20057

Load Transform Data Cancel

SELECT DATA

POWER BI – WHERE TO START

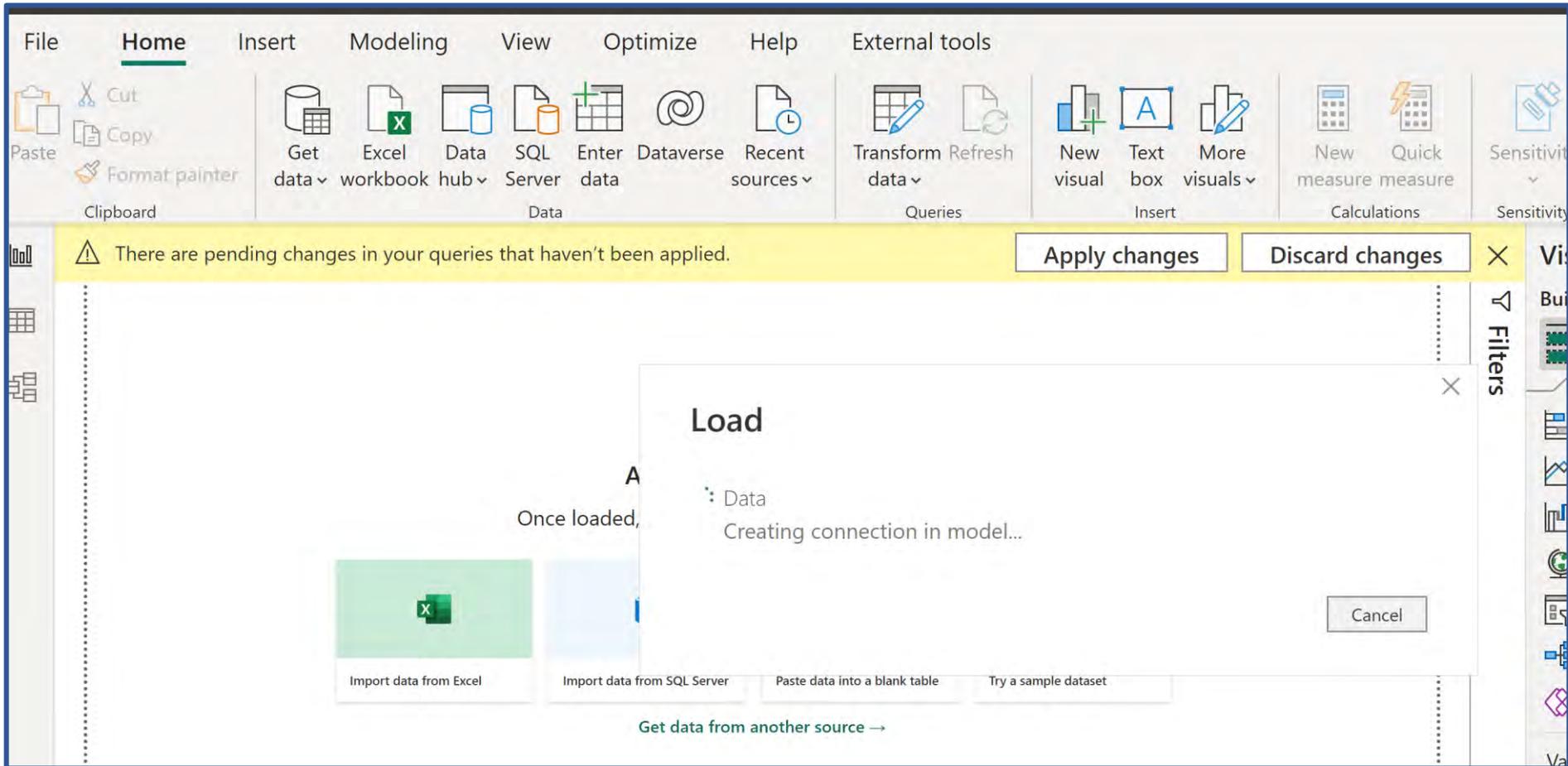
The screenshot displays the Power Query Editor interface. The ribbon at the top includes tabs for File, Home, Transform, Add Column, View, Tools, and Help. The Transform tab is active, showing options like Merge Queries, Append Queries, Combine Files, Text Analytics, Vision, and Azure Machine Learning. The main area shows a table with the following data:

	Incident Datetime	Report Datetime	Incident ID	Incident Number	CAD Number
1	1/1/2020 12:00:00 AM	6/23/2021 3:16:00 PM	1043121	210393732	211742.
2	1/1/2020 12:00:00 AM	6/23/2021 1:49:00 PM	1042957	210392784	211741.
3	1/1/2020 12:00:00 AM	3/15/2022 12:50:00 PM	1131074	220122593	220540.
4	1/1/2020 12:00:00 AM	12/30/2021 2:00:00 PM	1107459	210863440	213642
5	1/1/2020 12:00:00 AM	3/23/2022 8:59:00 AM	1133319	220122593	220540.
6	1/1/2020 12:00:00 AM	5/16/2022 3:17:00 PM	1150849	220319762	221362
7	1/1/2020 12:00:00 AM	5/17/2022 9:48:00 AM	1151149	220321563	221370.
8	1/1/2020 12:00:00 AM	4/18/2022 6:00:00 PM	1142074	220253665	221082.
9	1/1/2020 12:00:00 AM	4/22/2022 7:28:00 AM	1143304	220253665	221082.
10	1/1/2020 12:00:00 AM	7/25/2022 10:45:00 AM	1174461	220492192	222061.
11	1/1/2020 12:00:00 AM	7/27/2022 1:20:00 PM	1177735	220319762	221362
12	1/1/2020 12:00:00 AM	8/3/2022 9:06:00 AM	1177744	220321563	221370.
13	1/1/2020 12:00:00 AM	8/8/2022 2:46:00 PM	1179354	220528888	222201.
14	9/24/2020 12:00:00 AM	9/26/2020 11:51:00 AM	965495	206138772	
15	9/24/2020 12:00:00 AM	9/25/2020 11:40:00 AM	964514	206137774	

The right-hand pane shows the Query Settings for 'Data', including the Name field and the Applied Steps list, which includes 'Source', 'Navigation', and 'Changed Type'.

POWER QUERY EDITOR

POWER BI – WHERE TO START



APPLY CHANGES

POWER BI – WHERE TO START

The image shows the Microsoft Power BI Report View interface. At the top is a ribbon with tabs: File, Home, Insert, Modeling, View, Optimize, Help, and External tools. The Home tab is active, showing various icons for data sources (Get data, Excel workbook, Data hub, SQL Server, Enter data, Dataverse, Recent sources), queries (Transform data, Refresh data), inserts (New visual, Text box, More visuals), calculations (New measure, Quick measure), sensitivity, and share (Publish).

The main workspace contains the following text:

Build visuals with your data
Select or drag fields from the Data pane onto the report canvas.

Below the text is an illustration of a hand dragging a field from the Data pane to a visual on the report canvas.

On the right side, there are two panes:

- Visualizations:** A pane with a search bar and a grid of visualization icons. Below the icons is a section for "Values" with a text box "Add data fields here". At the bottom, there are "Drill through" and "Cross-report" options, with "Cross-report" currently set to "Off".
- Data:** A pane with a search bar and a list of data fields. The fields are:
 - Analysis Neighborhood
 - Σ CAD Number
 - Custom
 - Filed Online
 - Incident
 - Incident Category
 - Σ Incident Code
 - Incident Datetime
 - Σ Incident ID
 - Σ Incident Number
 - Incident Subcategory
 - Intersection
 - Σ Latitude
 - Σ Longitude

REPORT VIEW

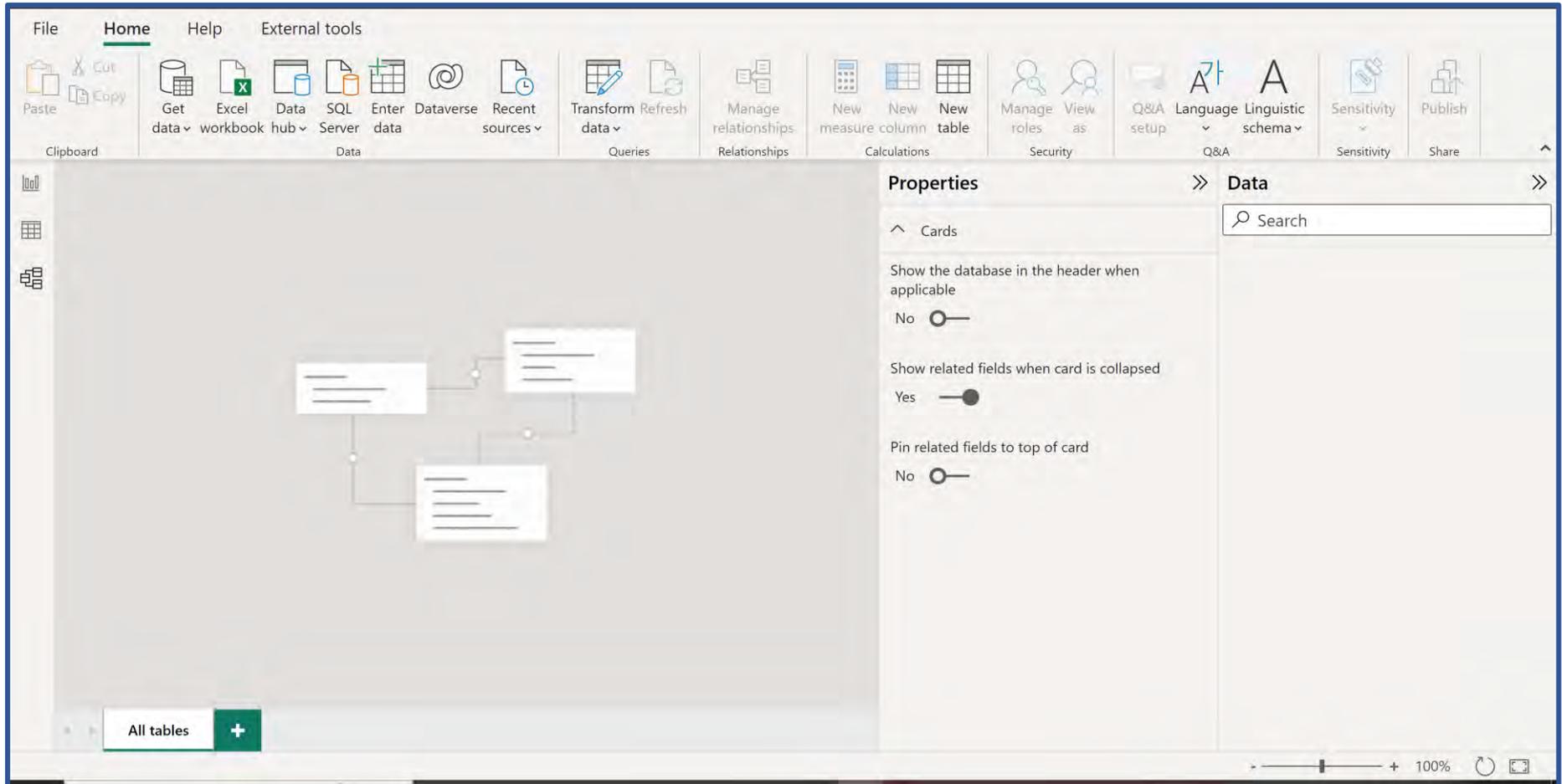
POWER BI – WHERE TO START

The screenshot displays the Microsoft Power BI interface. At the top, the ribbon includes 'File', 'Home', 'Help', 'External tools', and 'Table tools'. The 'Table tools' ribbon is active, showing options like 'Name' (set to 'Data'), 'Mark as date table', 'Manage relationships', and 'Calculations' (New measure, Quick measure, New column, New table). Below the ribbon, a data table is displayed with columns: Incident Datetime, Report Datetime, Incident ID, Incident Number, CAD Number, Report Type Code, Report Type Description, and Filed Online. The table contains 20 rows of incident data. On the right side, the 'Data' pane is visible, showing a search bar and a 'Data' view icon.

Incident Datetime	Report Datetime	Incident ID	Incident Number	CAD Number	Report Type Code	Report Type Description	Filed Online
Thursday, September 24, 2020	9/26/2020 11:51:00 AM	965495	206138772		II	Coplogic Initial	
Thursday, September 24, 2020	9/25/2020 11:40:00 AM	964514	206137774		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 7:11:00 AM	965226	206138421		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 12:50:00 AM	972414	206148618		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 2:13:00 PM	964235	206137257		II	Coplogic Initial	
Thursday, September 24, 2020	9/25/2020 10:20:00 AM	964494	206137718		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 5:12:00 PM	964210	206137188		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 3:22:00 AM	963962	200571023		VS	Vehicle Supplement	
Thursday, September 24, 2020	9/24/2020 5:55:00 PM	964485	206137655		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 7:45:00 AM	963975	200574986		VS	Vehicle Supplement	
Thursday, September 24, 2020	9/26/2020 12:04:00 PM	964734	206137984		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 9:00:00 AM	964102	200566591		IS	Initial Supplement	
Thursday, September 24, 2020	9/24/2020 9:43:00 AM	965223	206138299		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 9:37:00 AM	964215	206137304		II	Coplogic Initial	
Thursday, September 24, 2020	9/24/2020 9:00:00 AM	964102	200566591		IS	Initial Supplement	
Thursday, September 24, 2020	9/24/2020 9:24:00 AM	964021	200569868		VS	Vehicle Supplement	
Thursday, September 24, 2020	9/24/2020 4:37:00 PM	965540	206138998		II	Coplogic Initial	

DATA VIEW

POWER BI – WHERE TO START



ENTRY PAGE

POWER BI – WHERE TO START

The screenshot displays the Microsoft Power BI Desktop interface in Model View. The ribbon at the top includes tabs for File, Home, Help, and External tools. The Home tab is active, showing various data and query management options. The main workspace shows two tables: 'Data' and 'DescTable1'. A relationship is established between the 'Data' table and the 'Incident' column in 'DescTable1'. The 'Data' table list includes fields like Analysis Neighborhood, CAD Number, Custom, DescTable1.Incident, Filed Online, Incident, Incident Category, Incident Code, and Incident Datetime. The 'DescTable1' table list includes Incident, Index, and Collapse. The Properties pane on the right is open to the 'Relationship' section, showing the following configuration:

- Relationship: Data (Table) to Incident (Column)
- Cardinality: Many to one (*:1)
- Table: DescTable1 (Table) to Incident (Column)
- Make this relationship active: Yes (checked)
- Cross filter direction: Single

At the bottom of the Properties pane, there are options to 'Apply changes' and 'Open relationship editor'. The bottom status bar shows 'All tables' with a plus sign, a zoom slider set to 100%, and a refresh icon.

MODEL VIEW

POWER BI – WHERE TO START

Create relationship

Select tables and columns that are related.

Data

Filed Online	Incident Code	Incident Category	Incident Subcategory	Incident
True	6244	Larceny Theft	Larceny - From Vehicle	Theft, From Locked Vehicle, >\$950
True	6244	Larceny Theft	Larceny - From Vehicle	Theft, From Locked Vehicle, >\$950
True	6244	Larceny Theft	Larceny - From Vehicle	Theft, From Locked Vehicle, >\$950

DescTable1

Index	Incident
76	Access Card or Signature, Forgery of
5	Access Card, incl. Credit, Phone, ATM, Fraudulent Use of
107	Aided Case

Cardinality: Many to one (*:1) | Cross filter direction: Single

Make this relationship active | Apply security filter in both directions

Assume referential integrity

OK Cancel

MODEL VIEW

POWER BI – WHERE TO START

Manage relationships

Active	From: Table (Column)	To: Table (Column)
<input checked="" type="checkbox"/>	Data (Incident)	DescTable1 (Incident)

New... Autodetect... Edit... Delete

Close

MODEL VIEW

POWER BI – WHERE TO START

The screenshot displays the Microsoft Power BI Desktop interface. The top ribbon includes tabs for File, Home, Insert, Modeling, View, Optimize, Help, External tools, Format, and Data / Drill. The main workspace is divided into three panes: a data table on the left, a slicer in the center, and the Visualizations pane on the right.

Data Table:

Incident	Count of Incident
Access Card Counterfeiting Machinery, Possession of	2
Access Card, incl. Credit, Phone, ATM, Fraudulent Use of	12
Access Card, incl. Credit, Phone, ATM, Fraudulent Use of	24
Access Card Counterfeiting Machinery, Possession of	1
Aided Case	18
Alcohol, Under Influence Of in Public Place	6
Arson of Vehicle	2
Assault, Aggravated, W/ Force	36
Assault, Aggravated, W/ Gun	24
Assault, Aggravated, W/ Knife	40
Assault, Aggravated, W/ Other Weapon	40
Assault, W/ Caustic Chemical to Injure or Disfigure	2
Battery	52
Battery with Serious Injuries	2
Battery, former Spouse or Dating Relationship	2
Battery, Of A Police Officer	16
Battery, Sexual	2
Burglary Tools, Possession Of	2
Burglary, Apartment House, Forcible Entry	8
Burglary, Apartment House, Unlawful Entry	8
Burglary, Hot Prowl, Forcible Entry	6
Burglary, Other Bldg., Forcible Entry	14
Burglary, Other Bldg., Unlawful Entry	12
Burglary, Residence, Forcible Entry	14
Burglary, Residence, Unlawful Entry	18
Case Closure	4
Checks, Theft/Non-sufficient Funds, Felony	2
Courtesy Report	10
Death Report, Cause Unknown	4
Disturbing The Peace	2
Disturbing The Peace, Commission	2
Total	1550

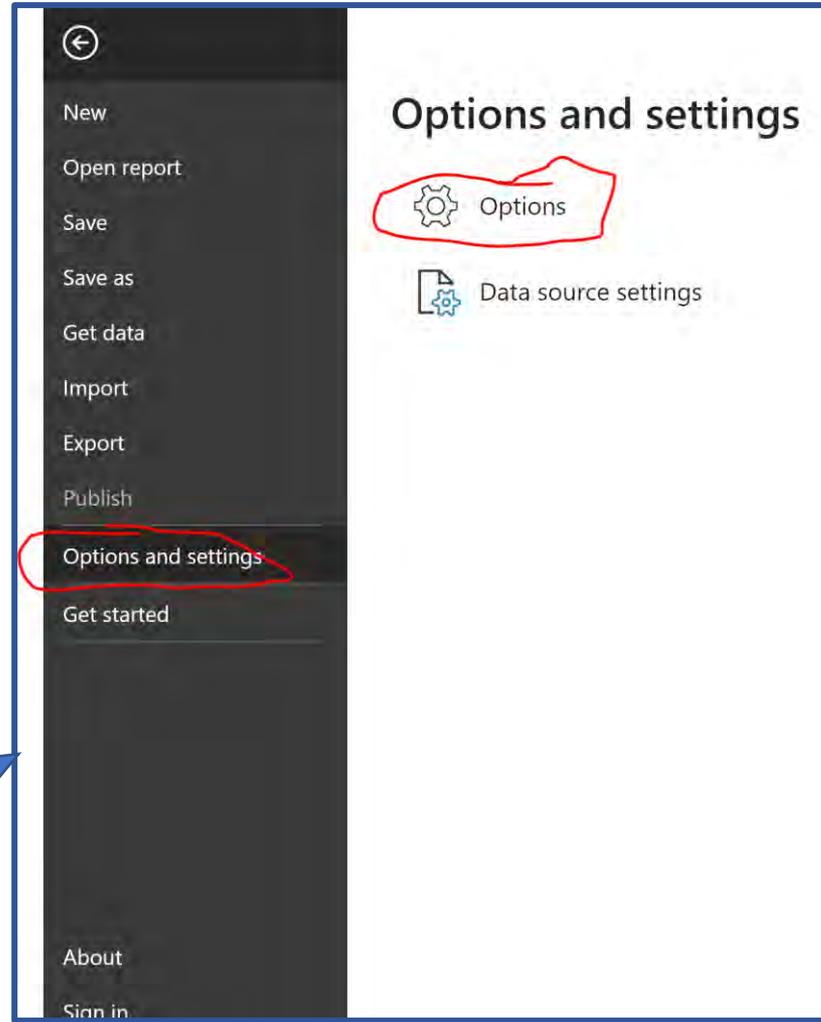
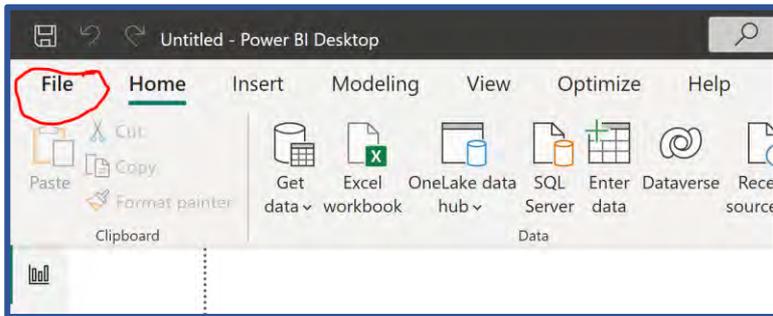
Slicer: Month Name
 January
 September

Visualizations Pane:

- Build visual:** Matrix, Slicer, Map, etc.
- Columns:** Incident, Count of Incident ID
- Drill through:** Cross-report (Off), Keep all filters (On)
- Data:** Analysis Neighborhood, CAD Number, Custom, DescTable1.Incident, Filed Online, Incident (checked), Incident Category, Incident Code, Incident Datetime, Incident ID (checked), Incident Number, Incident Subcategory, Intersection, Latitude, Longitude, Month

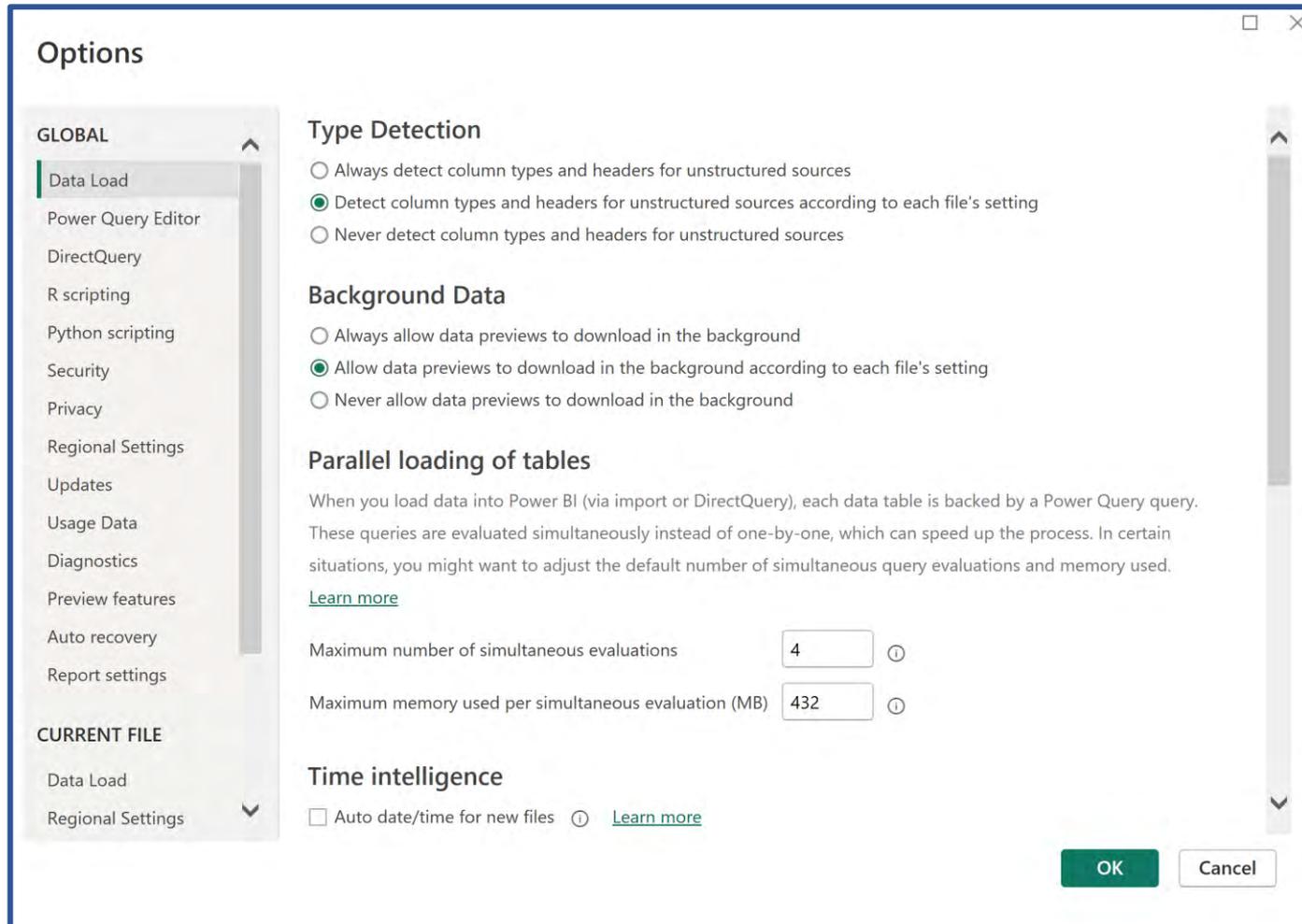
MATRIX AND SLICER

POWER BI – WHERE TO START



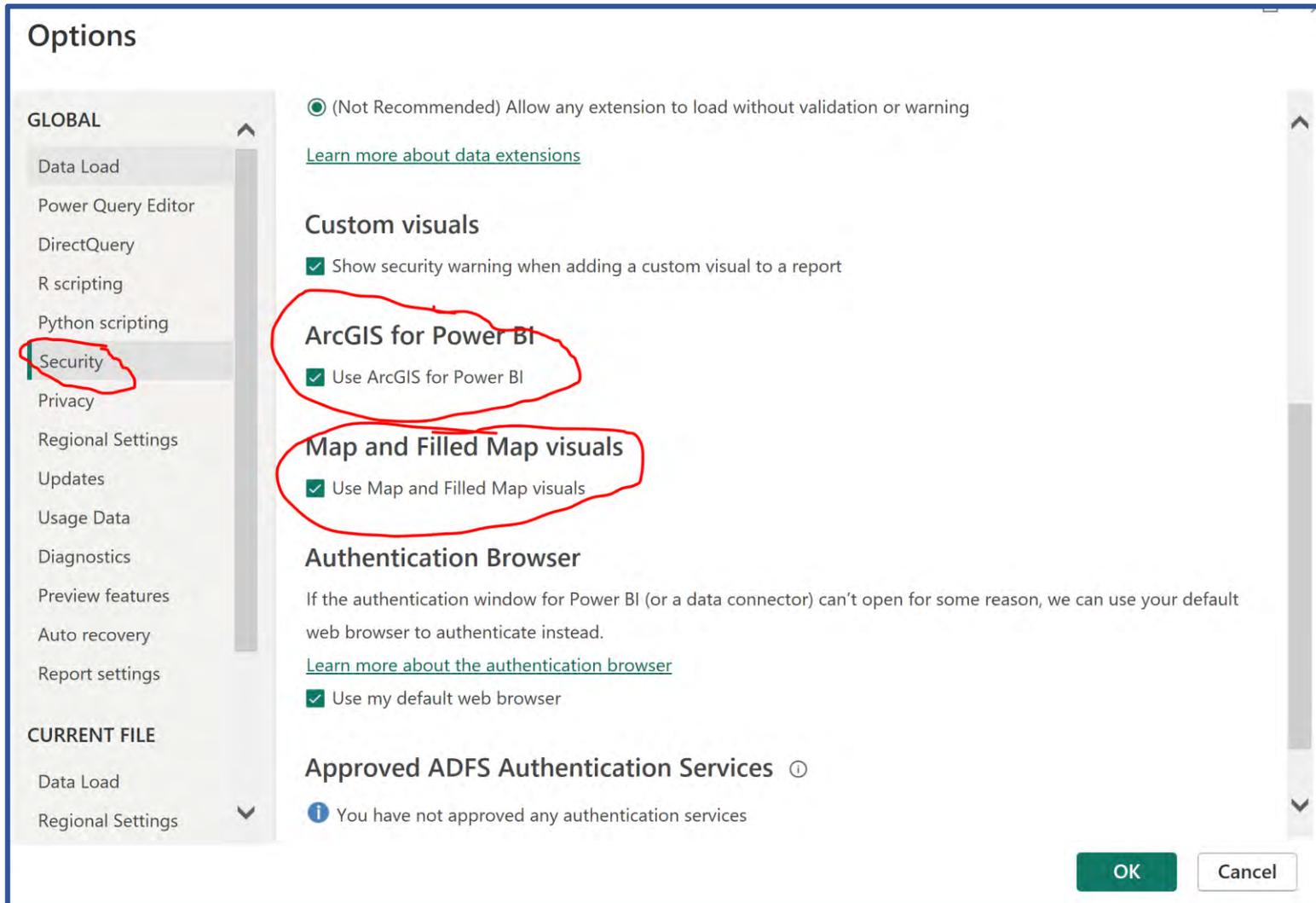
OPTIONS AND SETTINGS

POWER BI – WHERE TO START



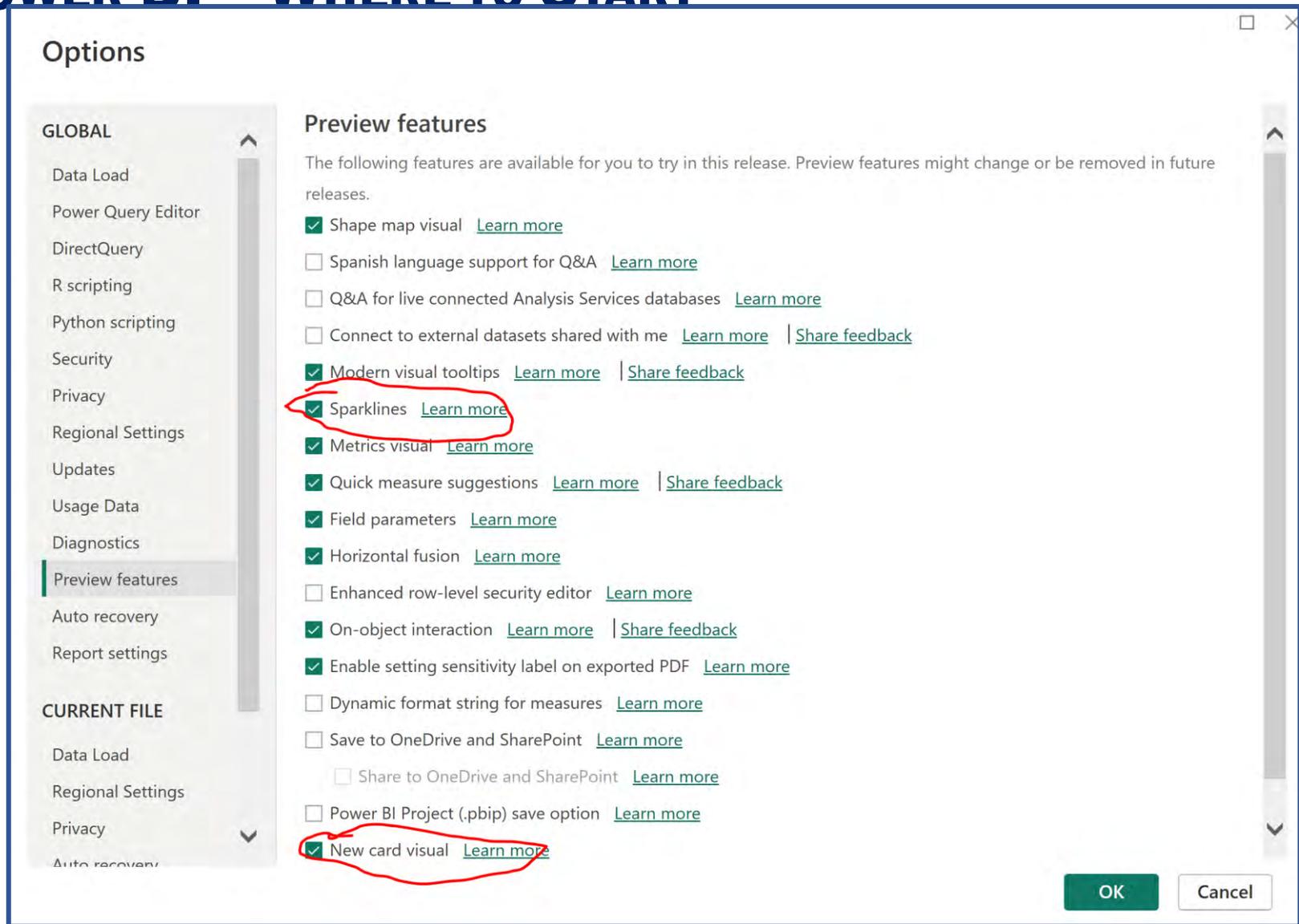
OPTIONS

POWER BI – WHERE TO START



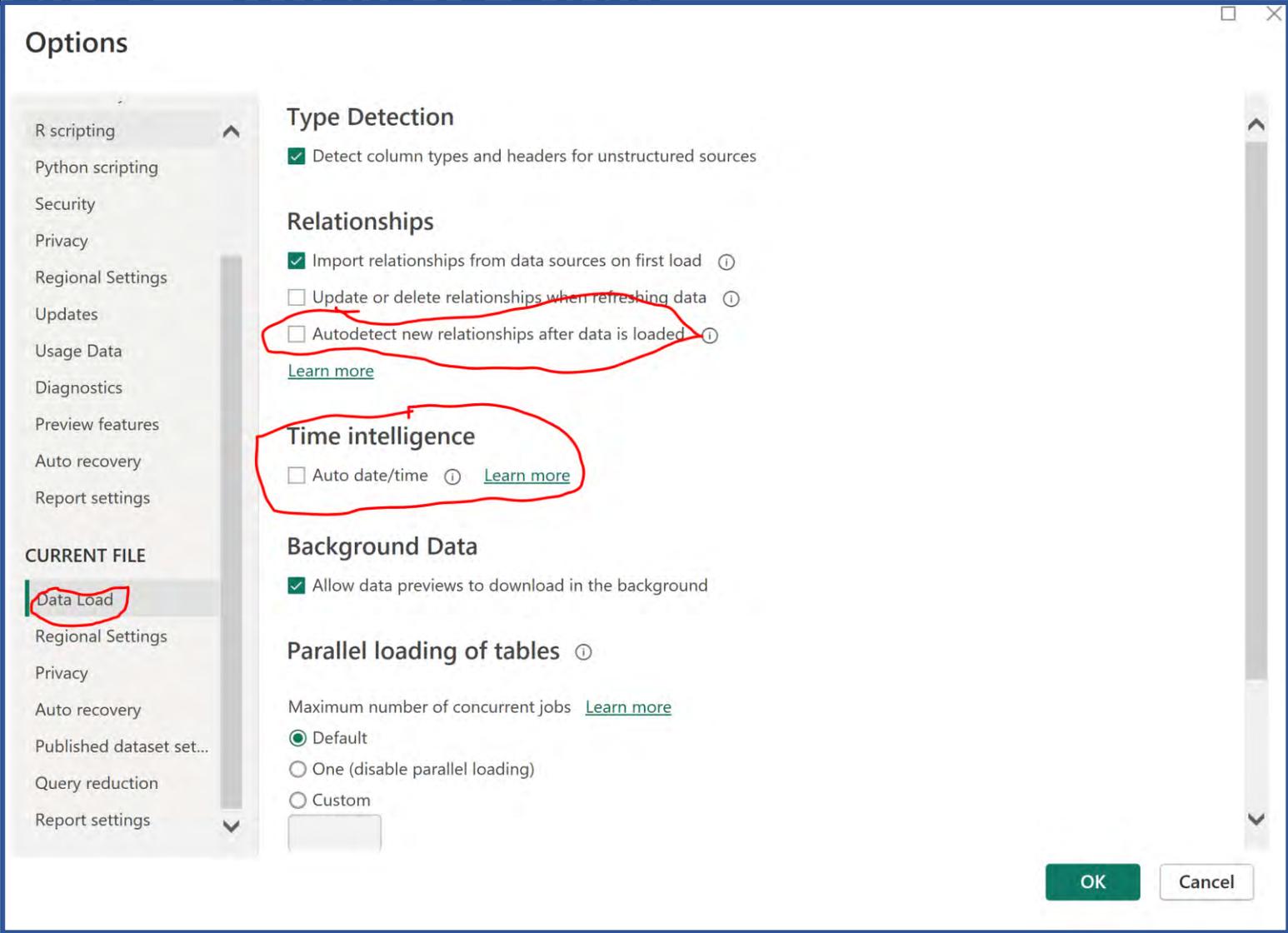
OPTIONS - SECURITY

POWER BI – WHERE TO START



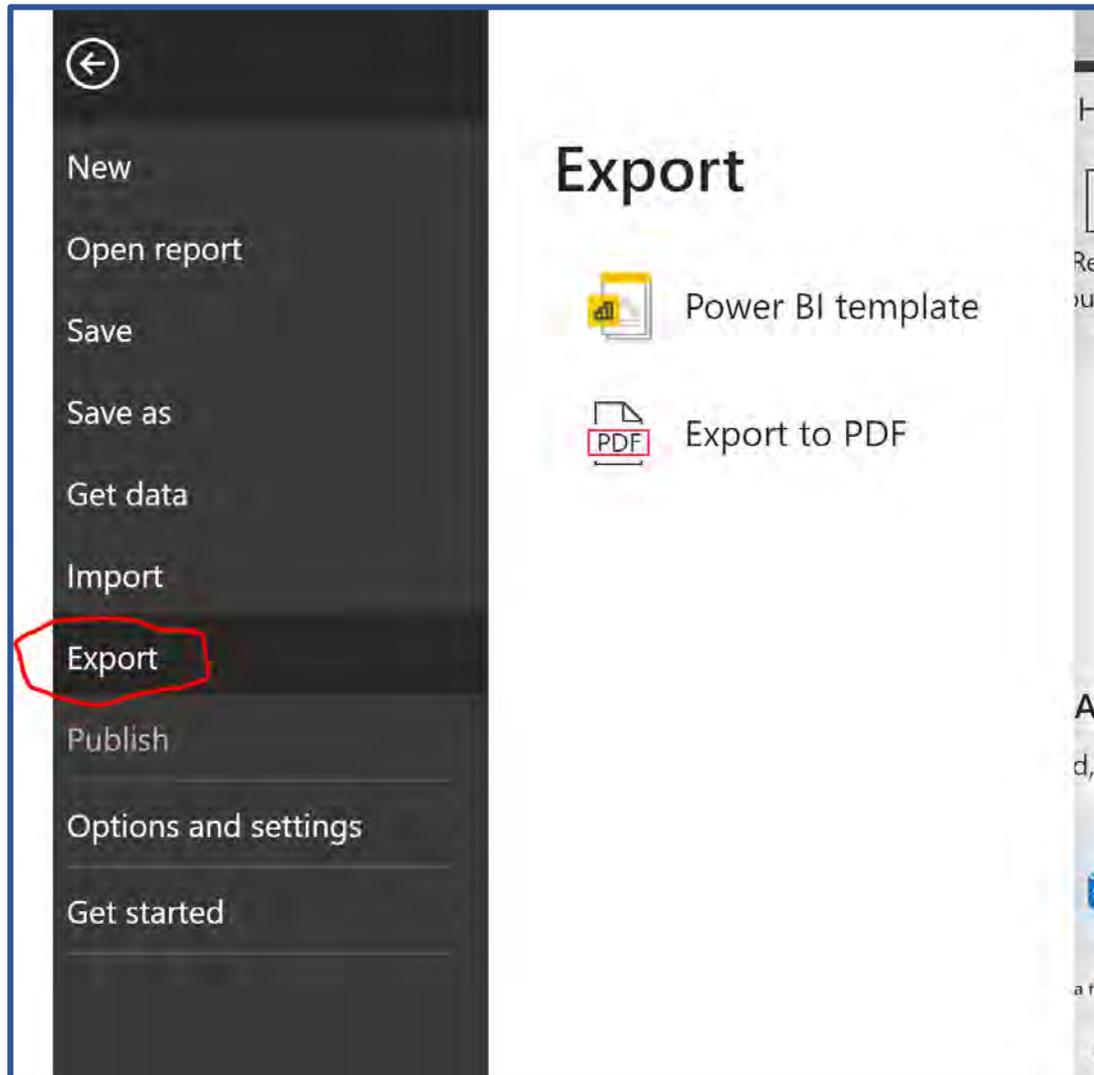
OPTIONS – PREVIEW FEATURES

POWER BI – WHERE TO START



OPTIONS – DATA LOAD

POWER BI – WHERE TO START



EXPORT REPORT TO PDF

ADDITIONAL INFORMATION (BOOKS)

✓ **Power Query**

- ✓ *Collect, Combine, and Transform Data Using Power Query in Excel and Power BI* (2018) by Gil Raviv

✓ **Entry Level**

- ✓ *Learn Power BI: Step by Step Guide to Building Your Own Reports* (2022) by Derek Wilson
- ✓ *Power BI - Business Intelligence Clinic: Create and Learn* Paperback (2018) by Roger F. Silva
- ✓ *Microsoft Power BI Dashboards Step by Step* (2018) by Errin O'Connor

✓ **Advance Level**

- ✓ *Analyzing Data with Power BI and Power Pivot for Excel* (2017), Marco Russo and Alberto Ferrari
- ✓ *The Definitive Guide to DAX: Business Intelligence for Microsoft Power BI, SQL Server Analysis Services, and Excel* (2019) by Marco Russo and Alberto Ferrari

ADDITIONAL INFORMATION (LINKS)

- ✓ Websites, Blogs, and YouTube channels
 - ✓ Power Query documentation
<https://docs.microsoft.com/en-us/power-query>
 - ✓ Power BI documentation
<https://docs.microsoft.com/en-us/power-bi/>
 - ✓ Power BI Tips
<https://powerbi.tips/>
 - ✓ RADACAD
<https://radacad.com/>
 - ✓ SQLBI
<https://www.sqlbi.com/>
 - ✓ Guy in a Cube
<https://guyinacube.com/>
 - ✓ Curbal
<https://www.youtube.com/channel/UCJ7UhloHSA4wAqPzyi6TOkw>

NEXT WEBINAR

Simple visualizations in Power BI

- ✓ *Bar charts*
- ✓ *Pie charts*
- ✓ *Graphs*

CONCLUSIONS & QUESTIONS

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