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Tax Executives Institute Technology Boot Camp

AN INTRODUCTION TO MICROSOFT GET & TRANSFROM



Presenters:



Jeff Bogan – Managing Director

 20 years of public accounting experience and the leader of Armanino's tax technology practice



Brandon Radlinger – Senior Associate

 4 years of experience in public accounting with a strong emphasis in automation, data cleansing, and process standardization







Learning Objectives

Objective of Course:

- Provide an overview of the data life cycle and how it applies to tax processes and tax calculations.
- Describe the challenges faced by tax professionals in transforming data for tax purposes.
- Introduce Microsoft Get & Transform (aka Power Query) and demonstrate functionality.
- Gain "hands-on" experience with Get & Transform through a case study.

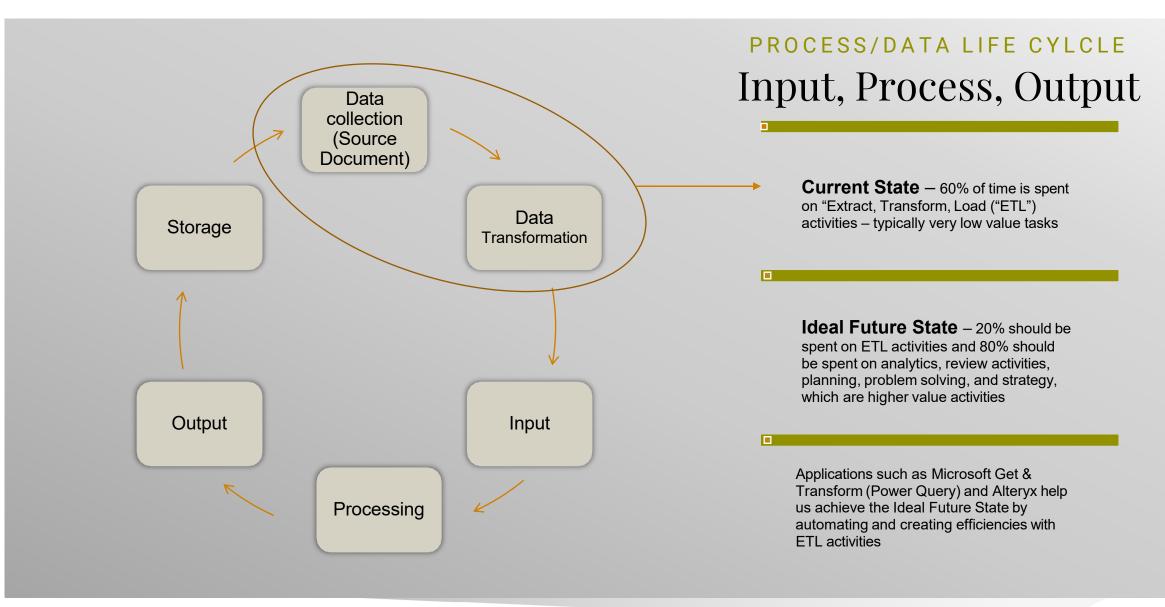




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- Agenda for Today
- The Data Life Cycle
- Overview of Get & Transform (Power Query)
- Case Studies
- Create Visualizations in PowerBI









Get & Transform

 Get & Transform is a data-transformation tool housed within Microsoft Excel and Power BI

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- Data often arrives in unstructured formats, which makes the ETL (extract, transform, and load) process a tedious process of manual workarounds
- Get & Transform speeds up the process by cleaning and organizing raw data through automation, which ultimately assists the analytical task of uncovering observations and trends





What Is a Proper Data Set?

<u>NOT</u> Proper

Division	Legal Entity	2020 Income Tax Expense	
101	Ross Corp	100000	
101	Rachel Corp	24000	
101	Joey Corp	12000	
101	Monica Corp	32000	
101	Phoebe Corp	15000	
101	Chandler Corp	21000	
	Subtotal	204000	
102	Cam Corp	3000	
102	Mitch Corp	1200	
102	Phil Corporation	32400	
102	Alex Corp	1200	
102	Manny Corp	1250	
102	Jay Corporation	3210	
	Subtotal	42260	
	Grand Total		246260
wihout Manny	245010		

Proper

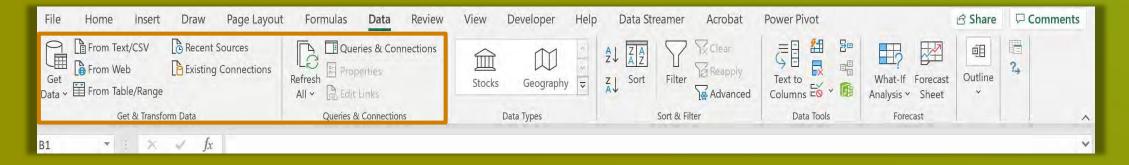
Division 👻	Legal Entity 👻	2020 Income Tax Expense 💌
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101	Phoebe Corp	15000
101	Chandler Corp	21000
102	Cam Corp	3000
102	Mitch Corp	1200
102	Phil Corporation	32400
102	Alex Corp	1200
102	Manny Corp	1250
102	Jay Corporation	3210





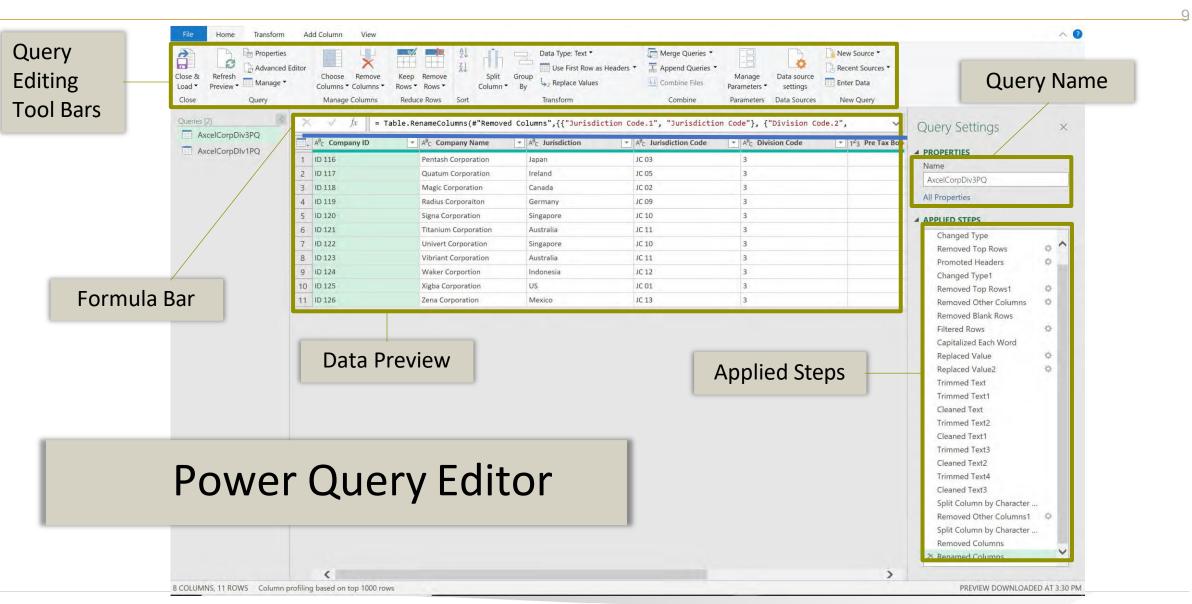
Locating Get & Transform Functions





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GET & TRANSFORM Demo & Case Studies

Get & Transform Functions

- Manage Columns
- Reduce Rows
- Use First Row as Headers
- Replace Values
- Split Column
- Rename
- Clean
- Extract
- Close and Load

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TABLE AND SLICER Examples



Power BI

Power BI is a standalone Microsoft business intelligence product, which includes both desktop and web-based applications for loading, modeling, and visualizing data

More information at powerbi.microsoft.com



Power BI

Connect, transform, clean and analyze data

 Access data from virtually anywhere (database tables, flat files, cloud services, folders, etc.), and create fully automated data shaping and loading (ETL) procedures

Build relational models to blend data from multiple sources

- Create table relationships to analyze information across a series of datasets
- Visualize data with interactive reports & dashboards
 - Build custom business intelligence tools with best-in-class visualization and dashboard features
- Define complex calculations using Data Analysis Expressions (DAX)
 - Enhance datasets and enable advanced analytics with powerful and portable DAX expressions

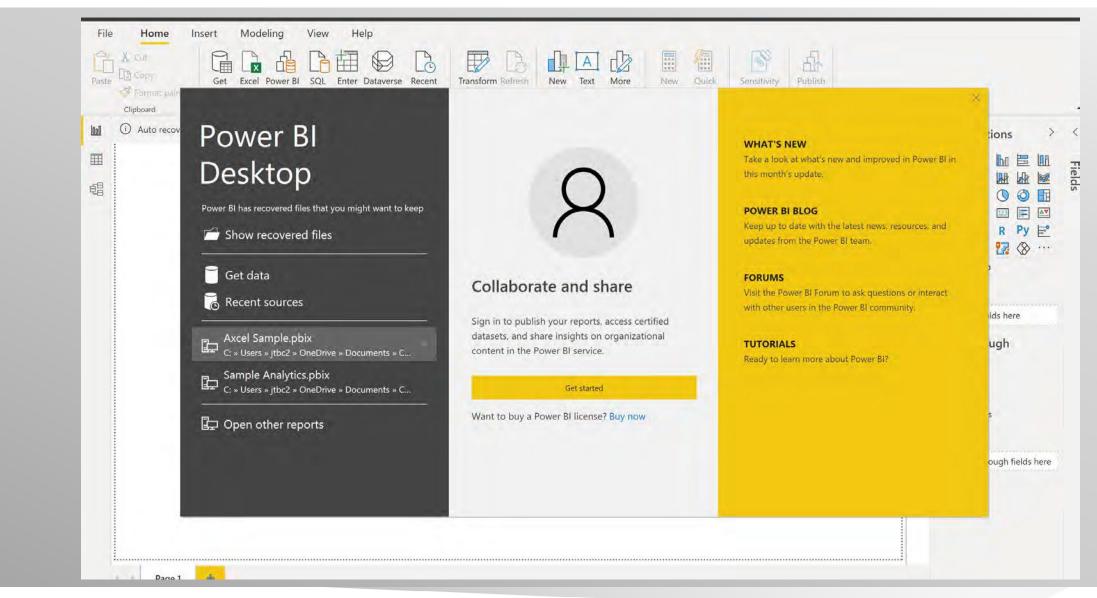


The parts of Power BI

Power BI consists of a Microsoft Windows desktop application called Power BI Desktop, an online SaaS (Software as a Service) service called the Power BI service, and mobile Power BI apps that are available on phones and tablets.

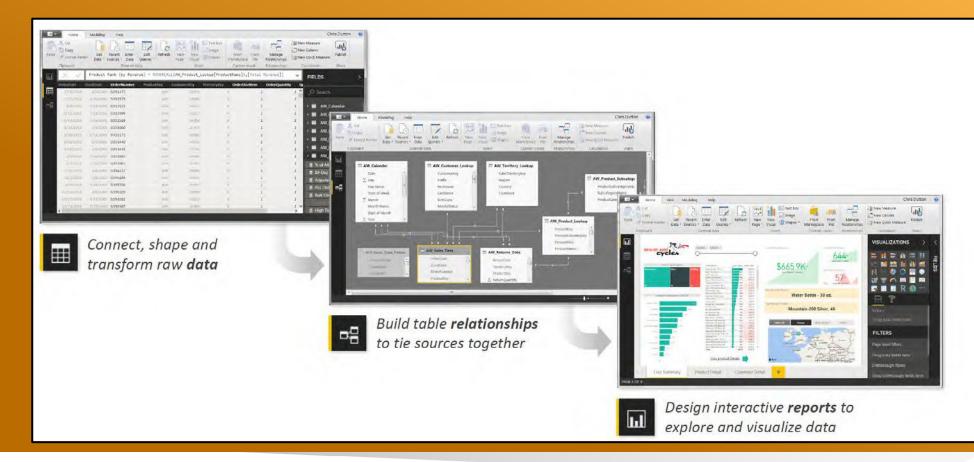
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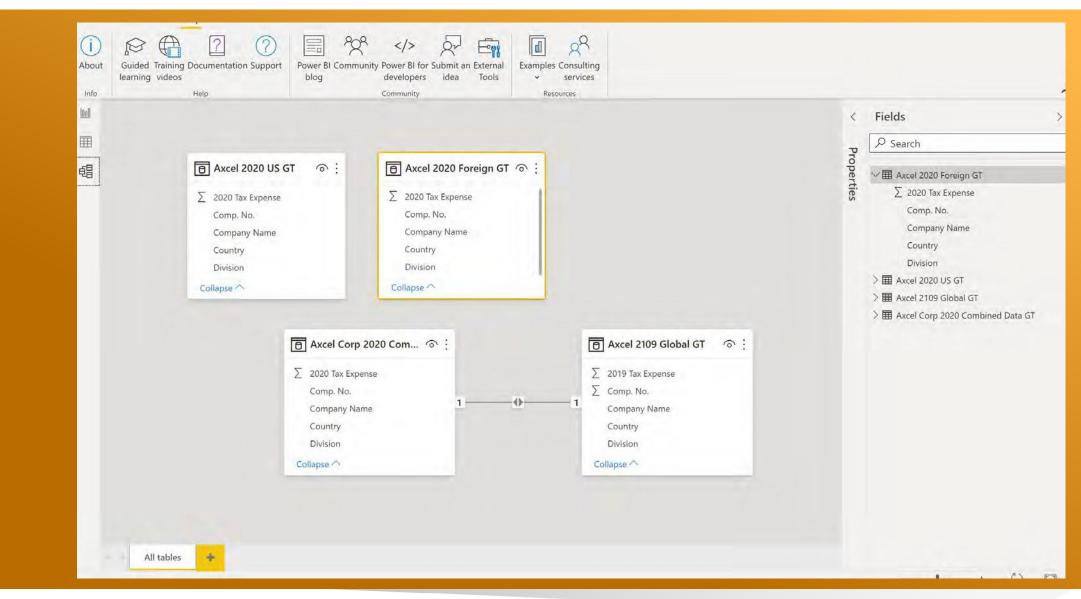
POWER BI Workflow



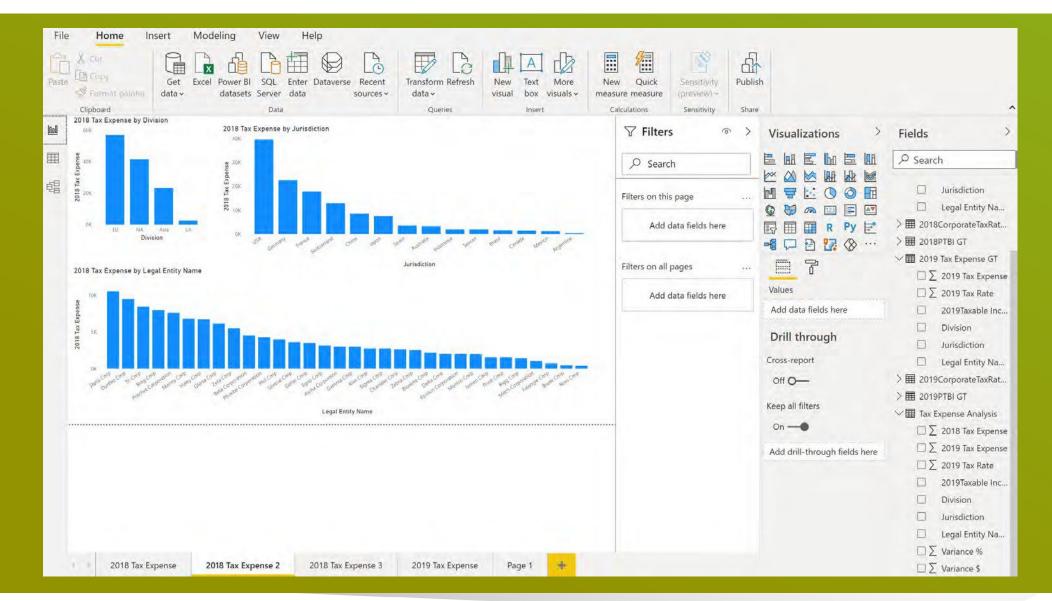


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1	Zeta Corp	Asia	China	25000	0.25	6250	5500	750	0.136363636363636	> 🖽 2018Corpora
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	Delta Corp	Asia	Indonesia	9000	0.25	2250	2000	250	0.125	> III 2019Corpora
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	Sigma Corp	NA	USA	18000	0.21	3780	2730	1050	0.384615384615385	> III Tax Expense /
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	Monico Corp	EU	France	7000	0.31	2170	1980	190	0.095959595959596	
	Phoebe Corporation	EU	France	16000	0.31	4960	4290	670	0.156177156177156	
	Tri Corp	EU	Germany	29000	0,3	8700	8400	300	0.0357142857142857	
	Epsilon Corporation	Asia	Taiwan	11000	0.2	2200		200	0.1	
	Falangie Corp	LA	Mexico	2600	0.3	780		60		
	Break Corp	NA	Mexico	1700	0.3	510		60		
	Stella Corp	EU	Germany	38000	0.3	11400		900		
	Bing Corp	NA	USA	41000	0.21	8610		630	0.0789473684210526	
	Geller Corp	EU	Spain	19000	0.25	4750		1250	0.357142857142857	
	Pritchet Corporation	EU	France	21000	0.31	6510		-1080	-0.142292490118577	
1	Alex Corp	NA	USA	11000	0.21	2310		-420	-0.153846153846154	
	Dunfee Corp	NA	USA	44000	0.21	9240		-210		
	Phil Corp	EU	France	11000	0.31	3410		-550	-0.1388888888888888	
	Haley Corp		USA	33000	D.21	6930	6720	210	0.03125	











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