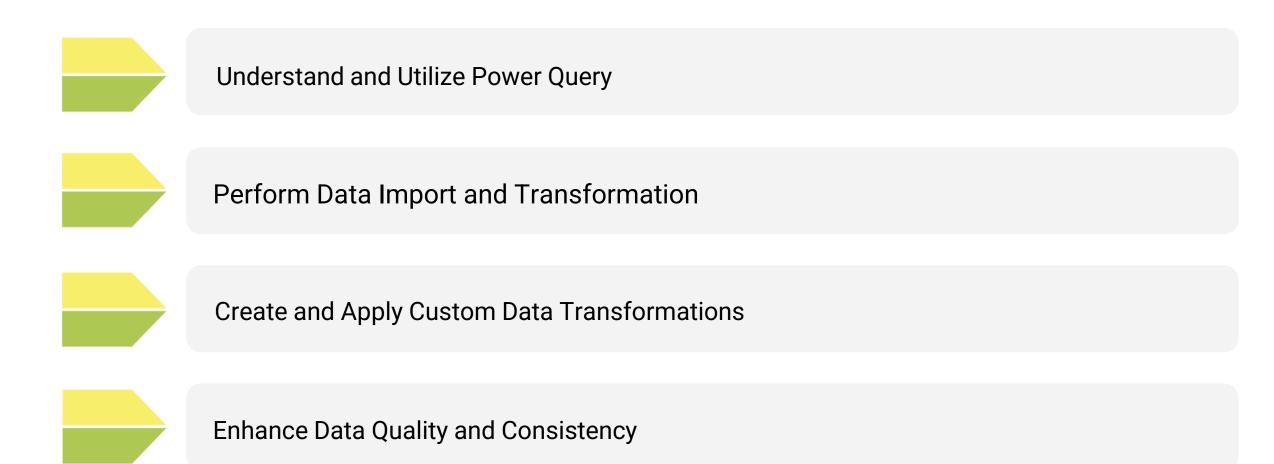
Power Query and Data Transformation Power BI

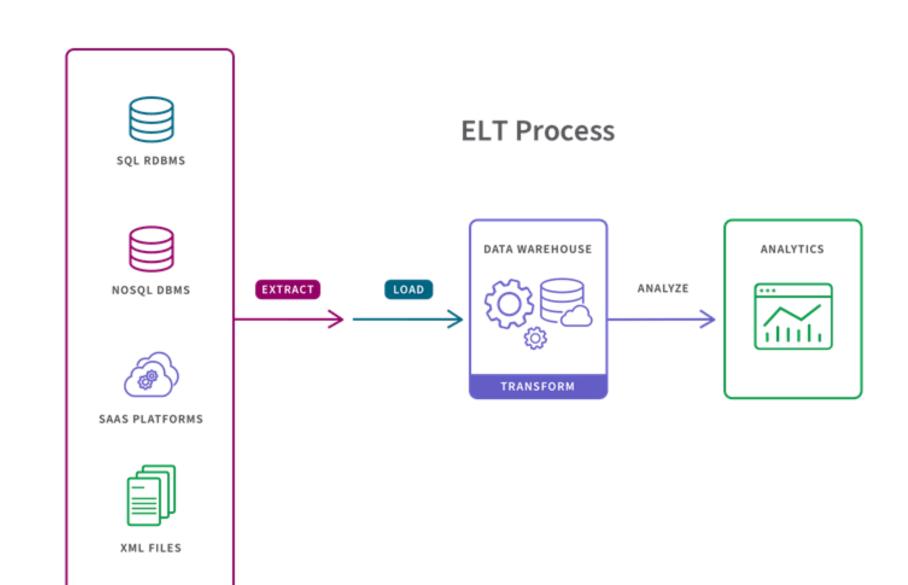
By Ahmad Mousa

Class Objectives

By the end of this lesson, you will be able to:







Data cleaning

Headers

Out layers

Missing

Irrelevant

Data type

Inconsistent

De-pivotting

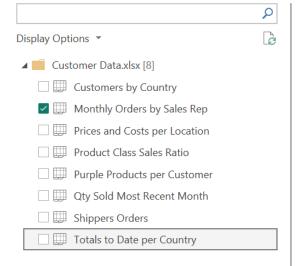
Duplicate





Get lata

Navigator



Totals to Date per Country

Preview downloaded on Thursday

Row Labels	Year to Date Sales	Quarter to Date Sales
Argentina	1664.7	1664.7
Aruba	5879.7	5879.7
Australia	9899.99	9899.99
Austria	2328.5	96
Bahamas	659.7	659.7
Bangladesh	65.7	65.7
Barbados	329.85	329.85
Belgium	9799.5	6839.4
Bermuda	5879.7	5879.7
Bolivia	97.02	97.02
Brazil	1885.1	1885.1
British Virgin Islands	33.9	33.9
Canada	58426	440.13
Chile	17.5	17.5
China	12526.5	12526.5
Colombia	27	27
Costa Rica	2497.05	2497.05
Czech Republic	329.85	329.85
Denmark	46.5	46.5
Dominican Republic	27	27
Ecuador	33.9	33.9
Fgvnt	5219.55	5219.55

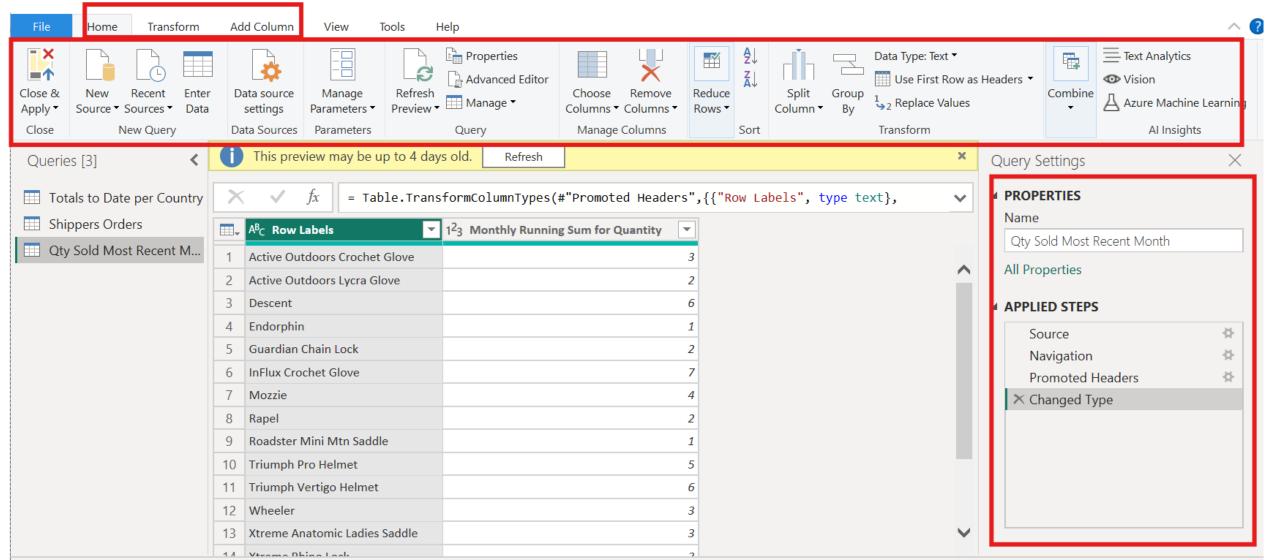
Load

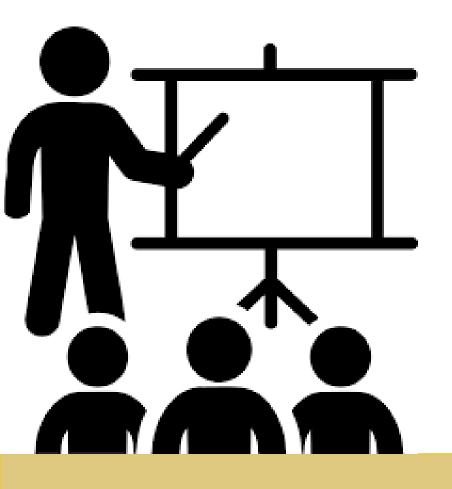
Transform Data

Cancel

 \square \times

à





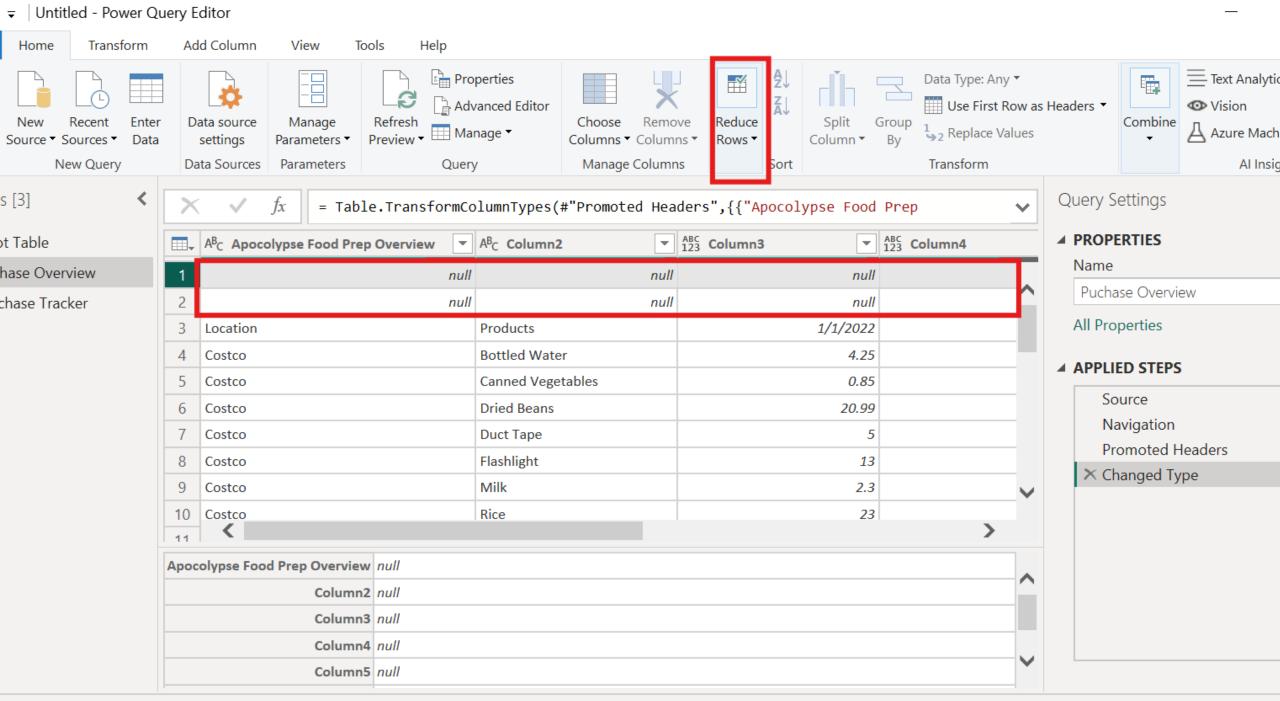
Instructor Demonstration: Power Query and Data Transformations

Suggested Time:

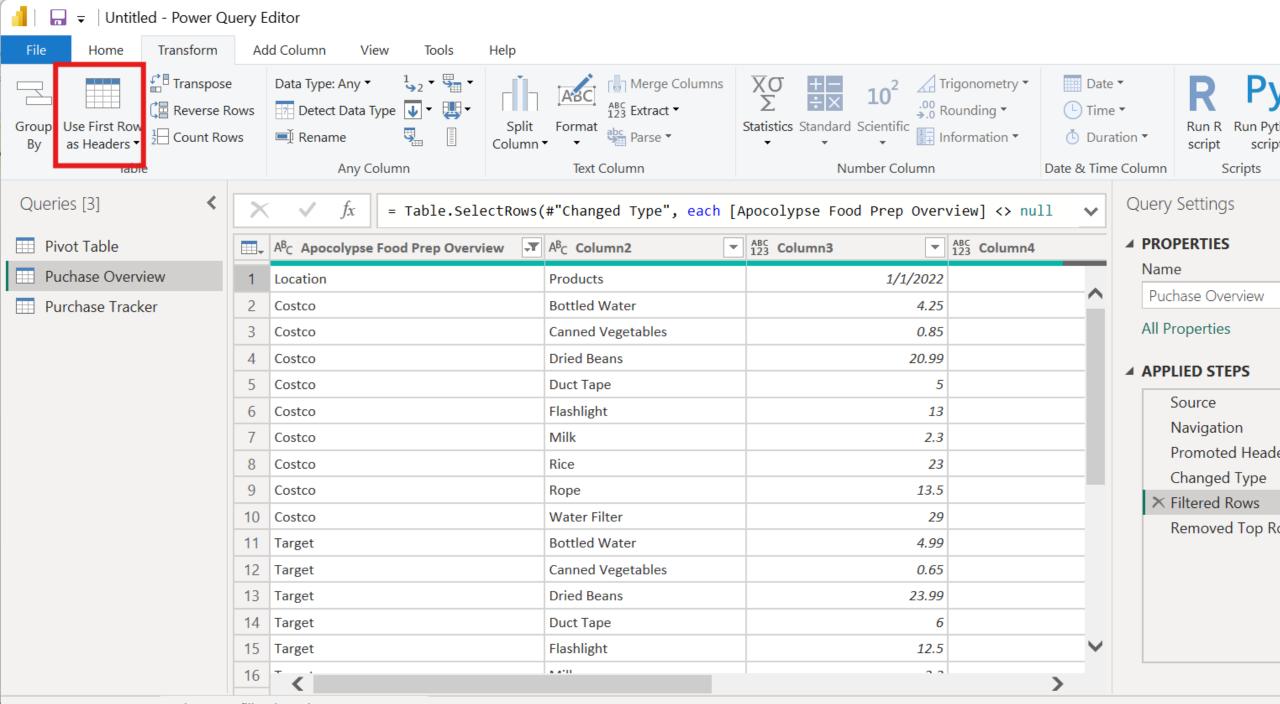


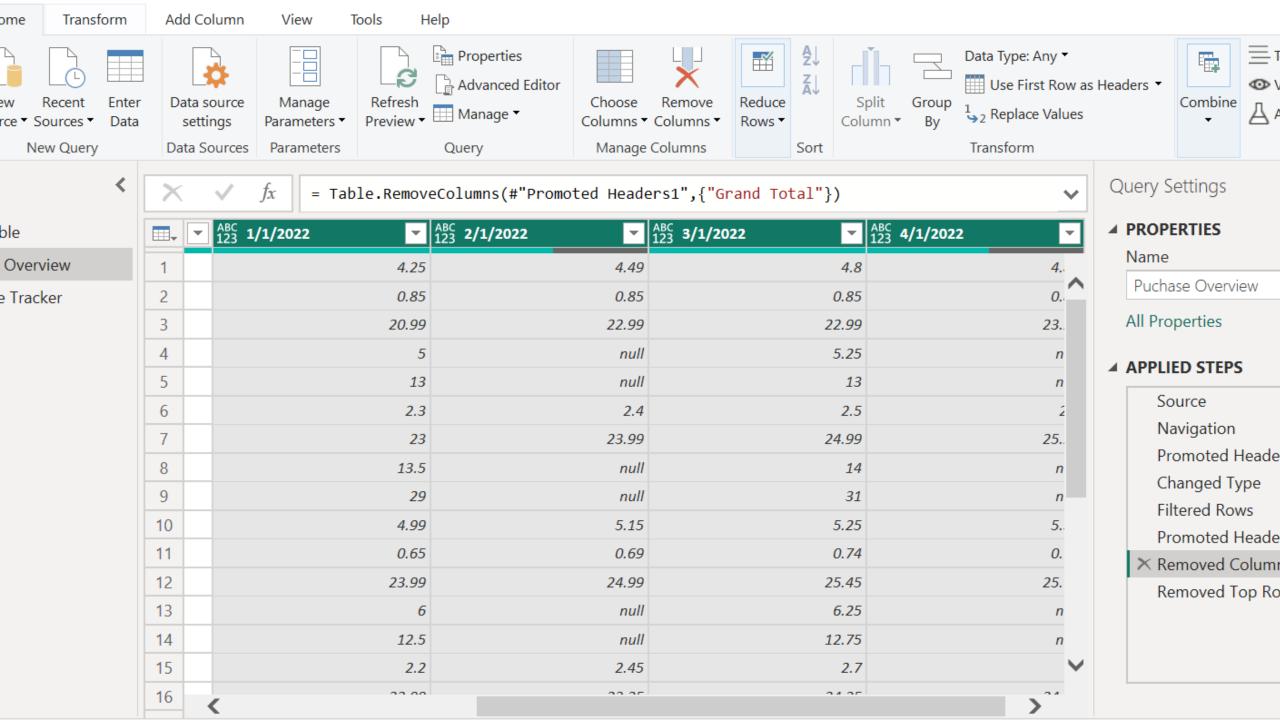
Questions?

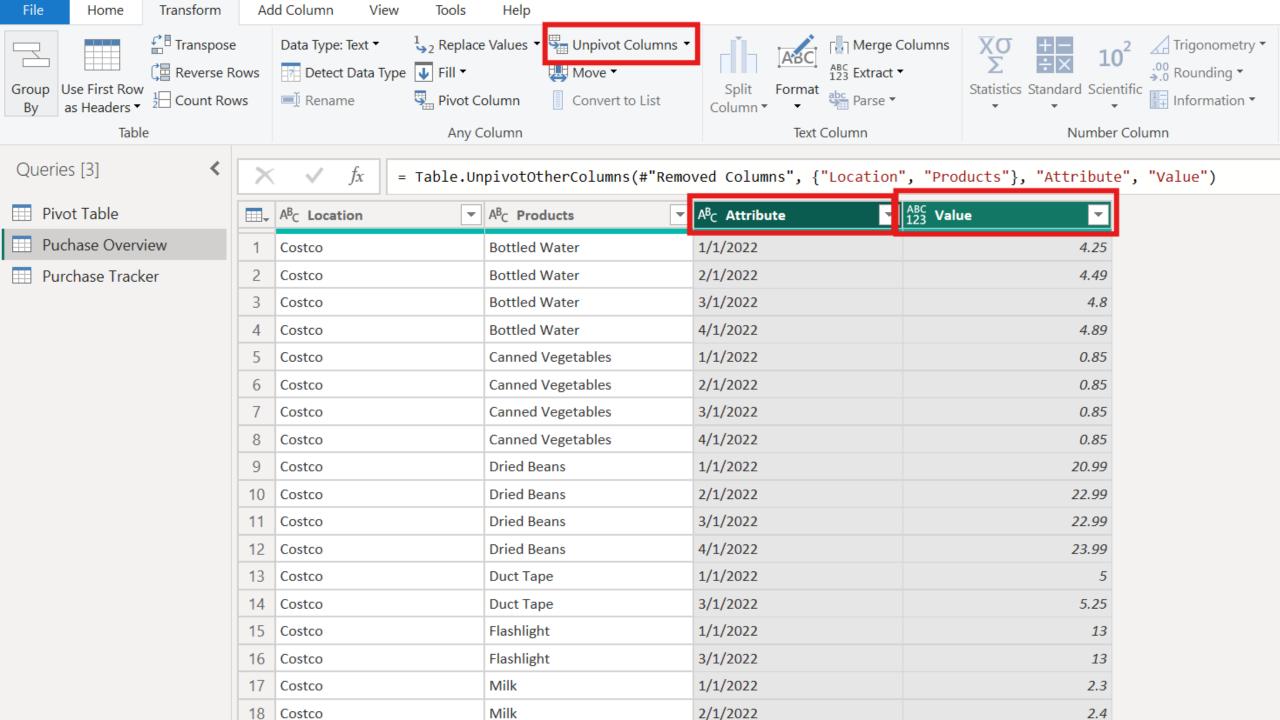


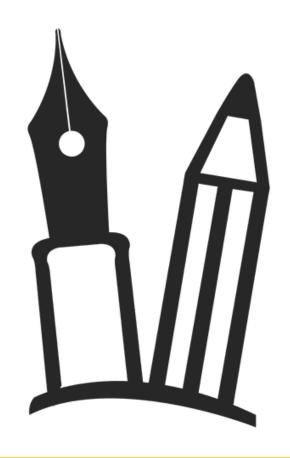


×	<pre></pre>			
-	A ^B C Apocolypse Food Prep Overview	A ^B _C Column2 ▼	ABC 123 Column3 ▼	ABC 123 Column4
/	Costco	Milk	2.3	
8	Costco	Rice	23	^
9	Costco	Rope	13.5	
10	Costco	Water Filter	29	
11	null	Costco Total	111.89	
12	Target	Bottled Water	4.99	
13	Target	Canned Vegetables	0.65	
14	Target	Dried Beans	23.99	
15	Target	Duct Tape	6	
16	Target	Flashlight	12.5	
17	Target	Milk	2.2	
18	Target	Rice	22.99	
19	Target	Rope	15	
20	Target	Water Filter	38	
21	null	Target Total	126.32	~
22	Walmart	Bottled Water	5	
				>









Students Do: IPEDS Data Transformations

Suggested Time:







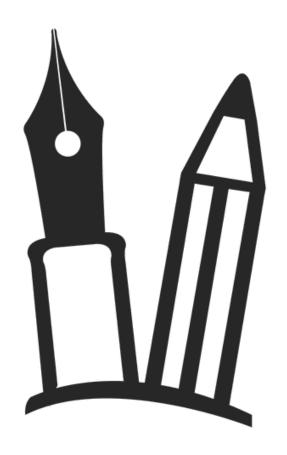
Instructor Demonstration: separate columns and fix data types.

Suggested Time:



Questions?





Everyone Do: Apocalypse Food Prep Transformations

Suggested Time:



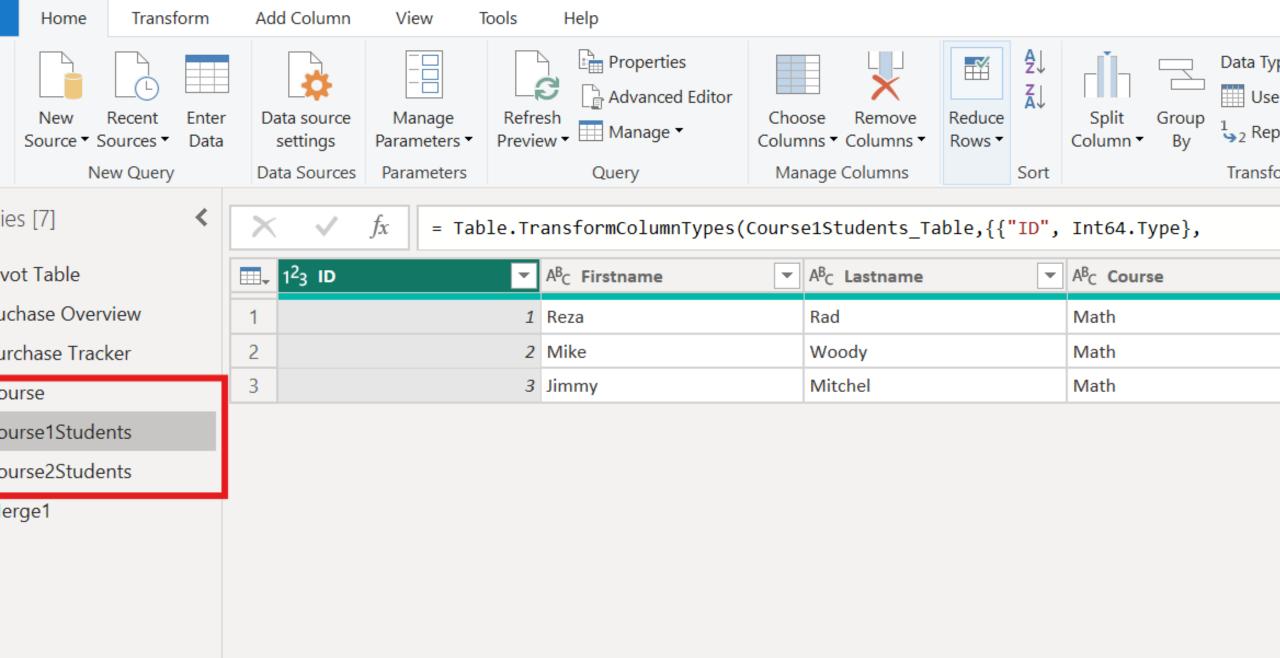
Activity: Explore Data

- Using Apocalypse Food.xlsx, do the following:
 - Change the names of the table
 - Fix the header of the tables
 - Remove the row that have missing value
 - Fix the data type and the format
 - Unpevot the date

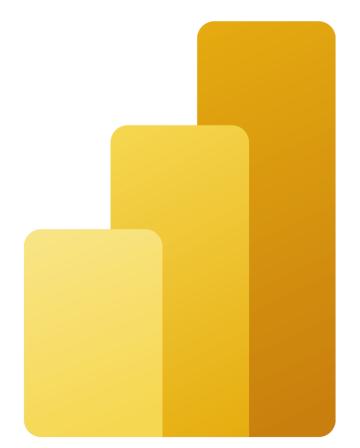
• Hint:

Don't forget to save the file once finished.





Join



Append

three or more tables into a single table.

Two tables



Three or more tables

Available tables

Course1Students (Current)

Pivot Table

Puchase Overview

Purchase Tracker

Course

Course2Students

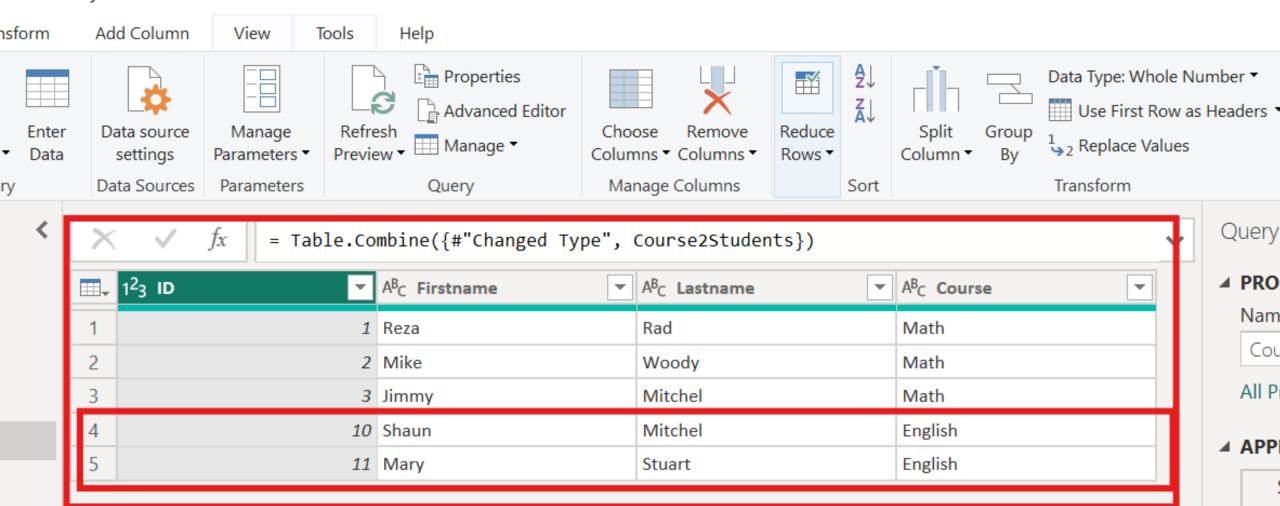
Tables to append

Course1Students (Current)

Course2Students

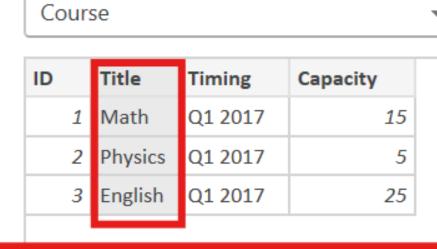
Add >>

ower Query Editor



×

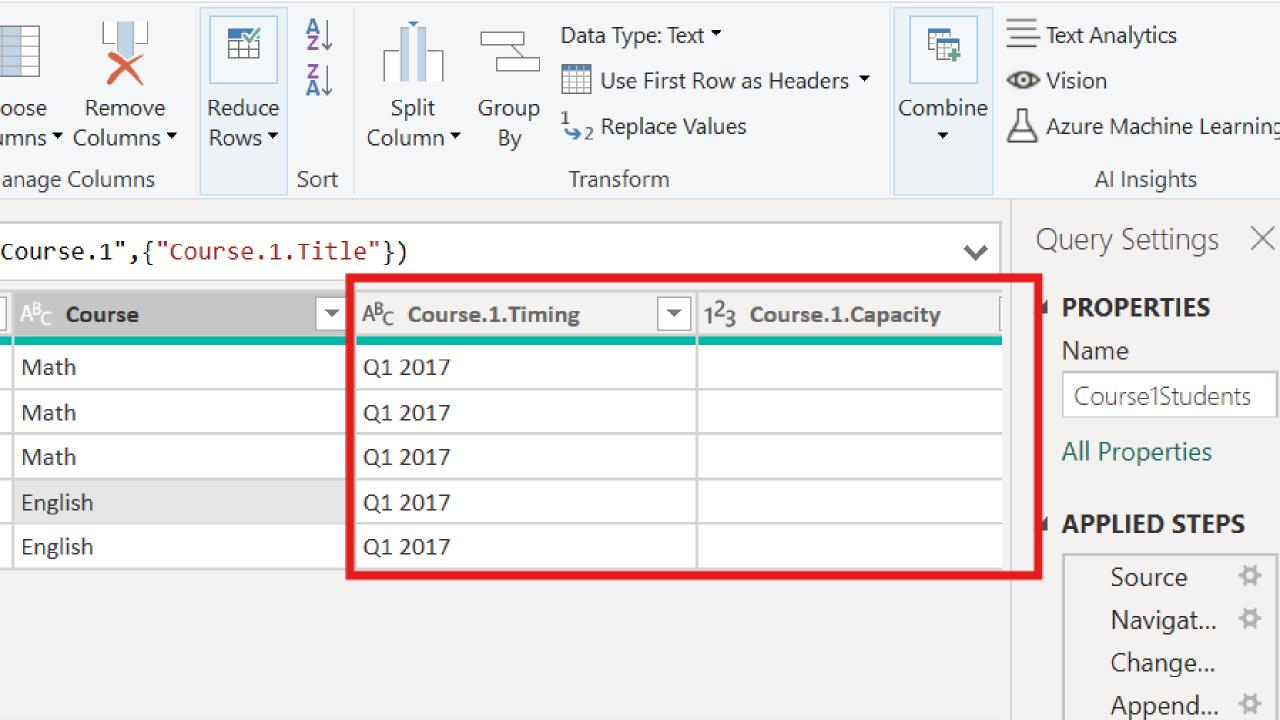
ID	Firstname	Lastname	Course
1	Reza	Rad	Math
2	Mike	Woody	Math
3	Jimmy	Mitchel	Math
10	Shaun	Mitchel	English
11	Mary	Stuart	English



Join Kind

Left Outer (all from first, matching from second)

Use from a stable at a self-out the second



VISUALIZING MERGE JOIN TYPES USING VENN DIAGRAMS



Inner Join

Full Outer Join

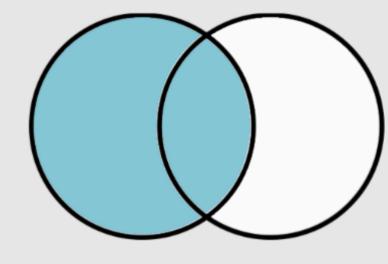
Left Anti Join

Right Anti Join

able A

omer Name	IsJoined
l Pitt	✓
Hanks	✓
Roberts	✓
elina Jolie	✓
Aniston	√

All from Table A, matching from Table B

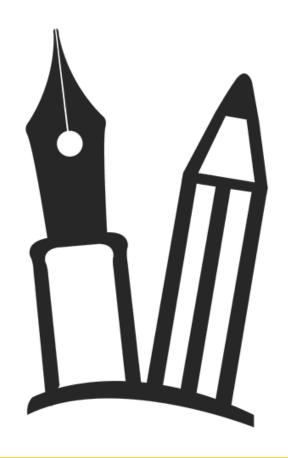


Left Outer Join

Merged Table

Customer ID	Customer Name	Email
1	Brad Pitt	

Customer ID	Ema
2	2@s
4	41@
4	42@
5	5@s



Everyone Do: Join Rental

Suggested Time:



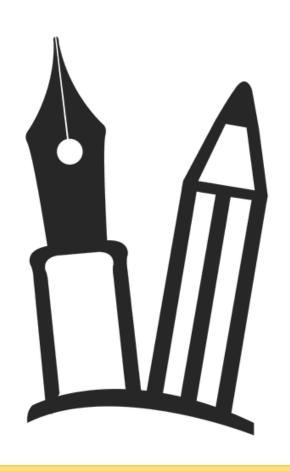
Activity: Explore Data

- Using GolobalRental1.xlsx, do the following:
- Append GolobalRental1 and GolobalRental2.
- Join film.xlsx to GolobalRental1.xlx Table in the appropriate column

Hint:

Don't forget to save the file once finished.







Suggested Time:





