Cubes

It's Hip to be Square

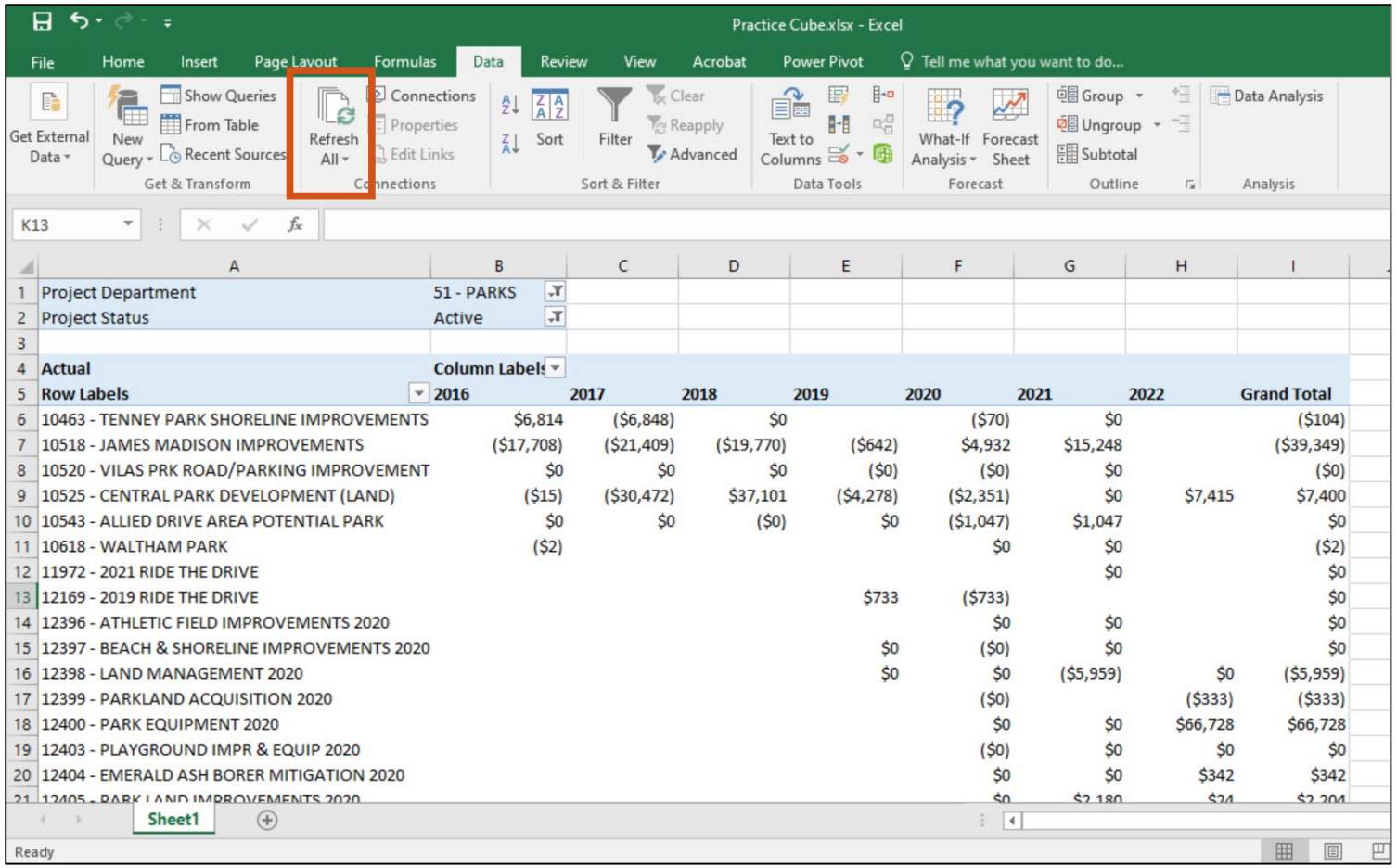
Budget Contacts Meeting
May 26, 2022
10:30am – 11:30am

Cube by Yana Marudova from the Noun Project

Agenda

- What is a cube?
- How to make a cube
- Cubercise
- Limitations of cubes

What is a cube?



- Live connection to MUNIS in Excel
- Allows analysis and monitoring of City's financial data
- Uses pivot tables

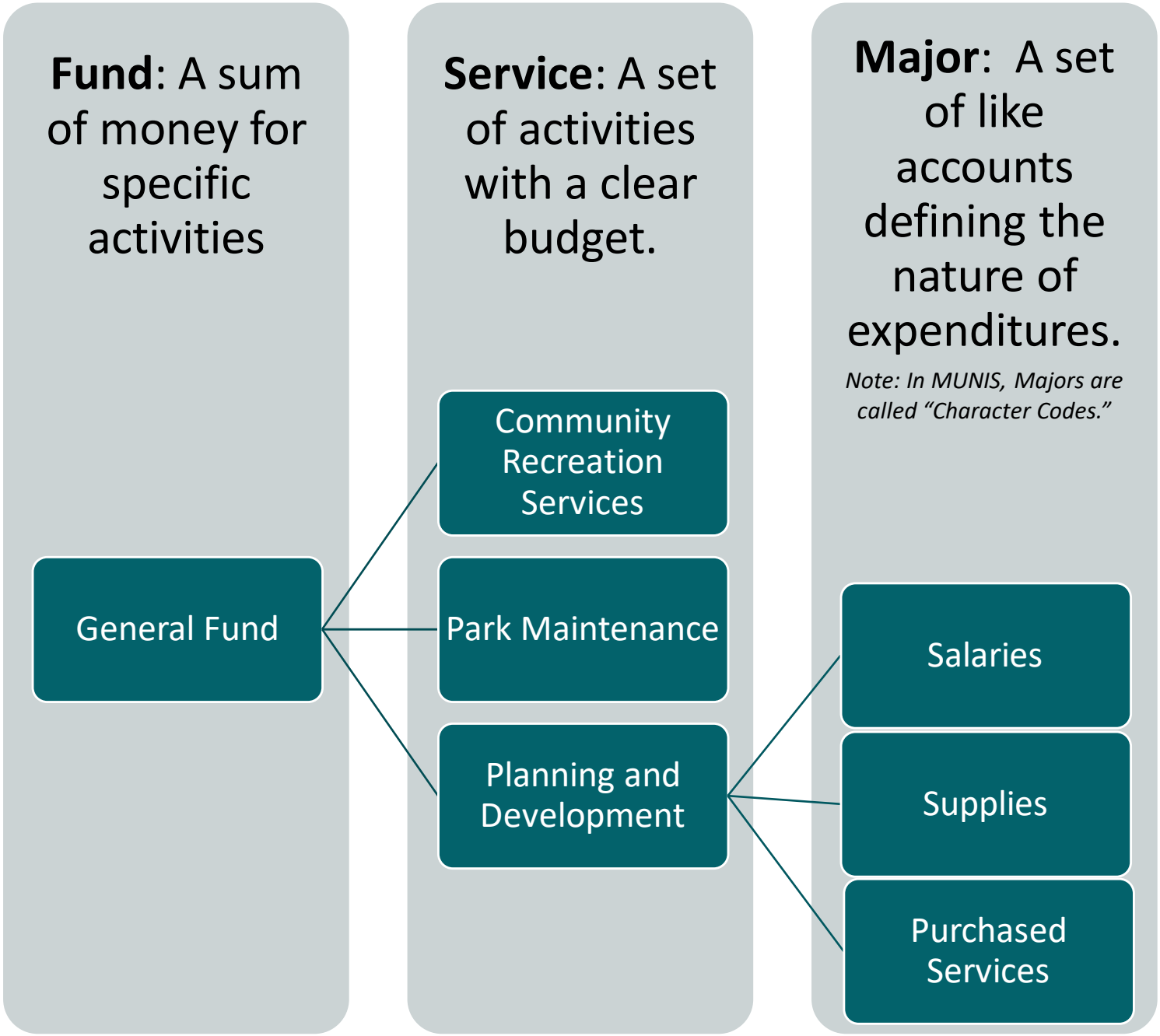
Which cube do I use for this?

Cube Type	Best Used For…
General Ledger: Projection Cube	Operating Budget Development
General Ledger: Revenue and Expense	Operating Budget Monitoring
Project Cubes	Capital Project Monitoring
Payroll HR/Cubes	Salary, Position, Vacancy Analysis

📦 FREEZE: To understand cubes, you need to understand the chart of accounts!

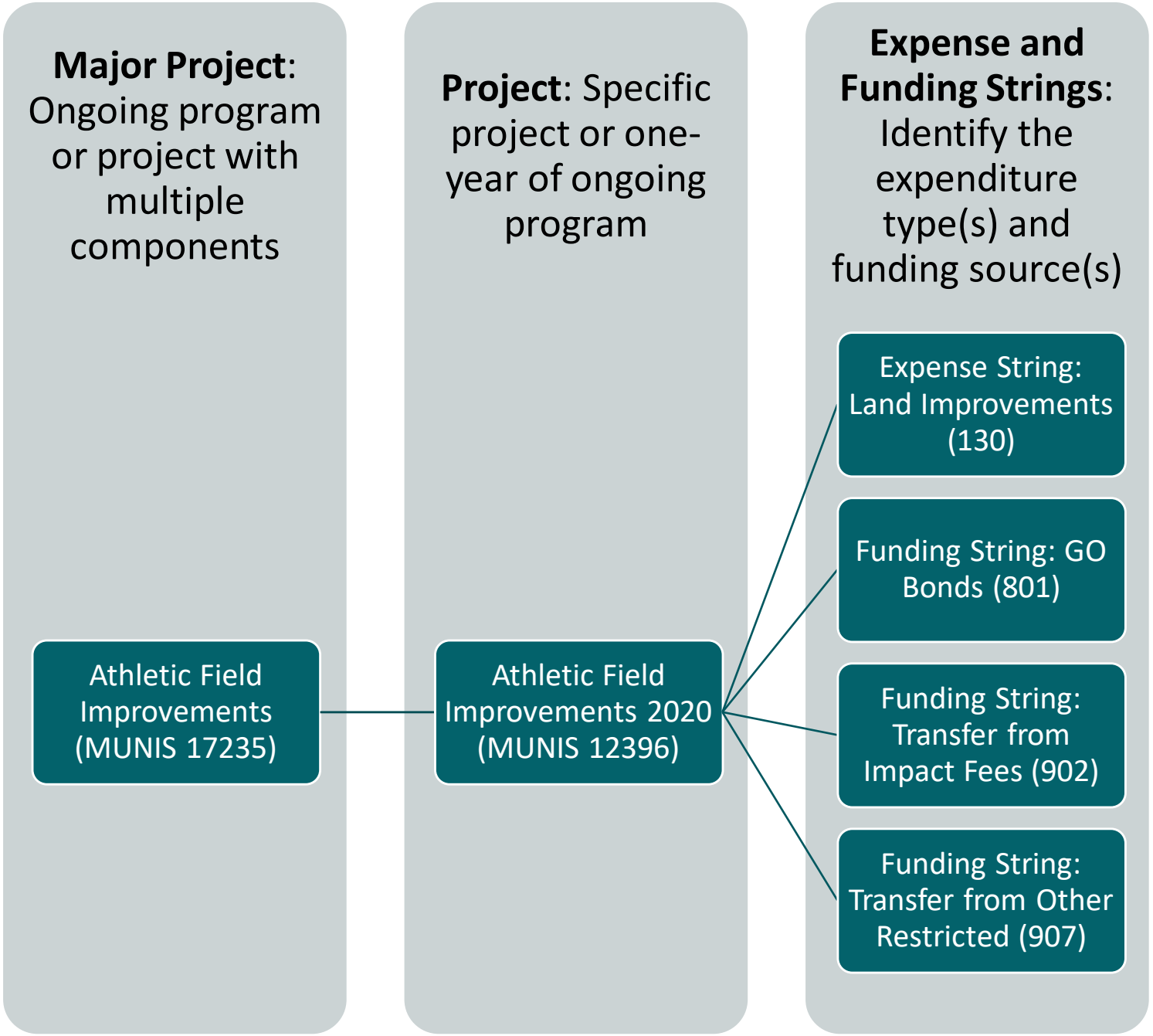
Chart of Accounts: What is it?

The framework for recording and reporting the City's financial transactions.



Project Ledger: What is it?

The framework for recording and reporting transactions operating projects (such as grants) and capital projects and programs.

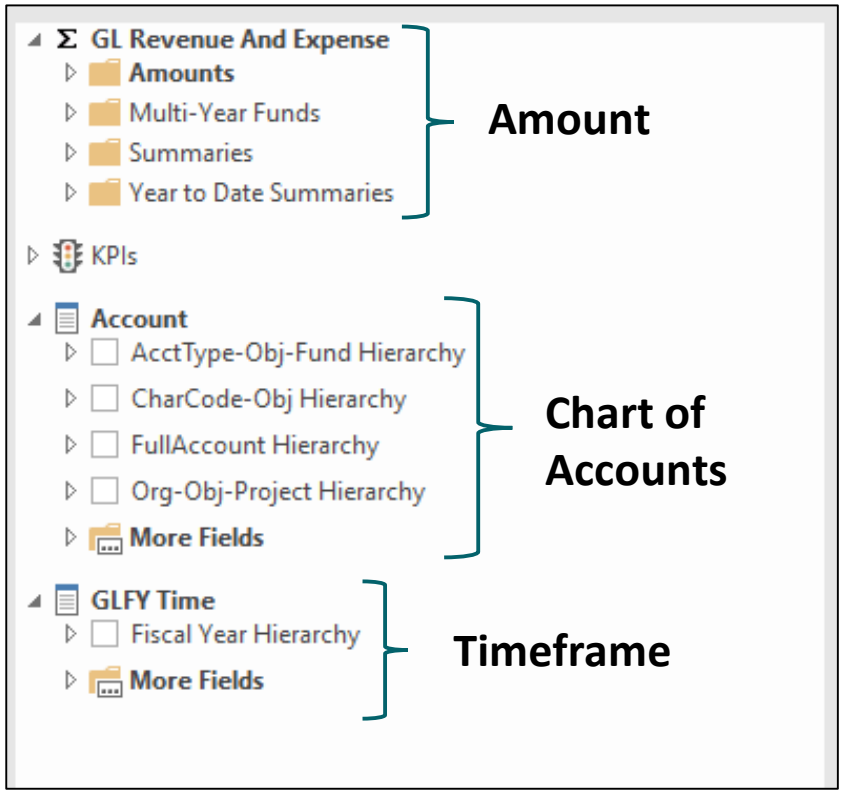


Info within Cubes

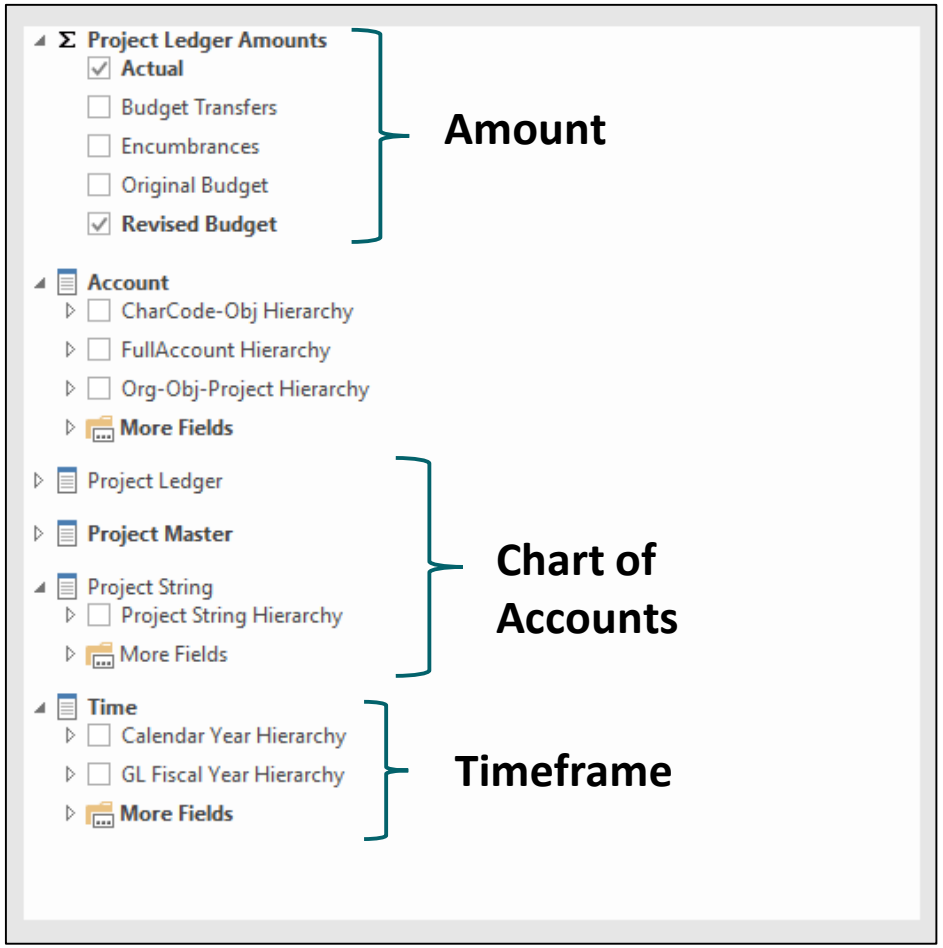
- Amount – How much?
- Chart of Accounts – On what?
- Timeframe – When?

Info within Cubes

GL Cubes



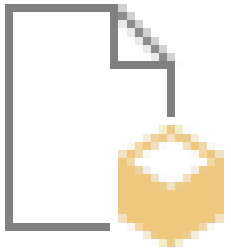
PL Cubes

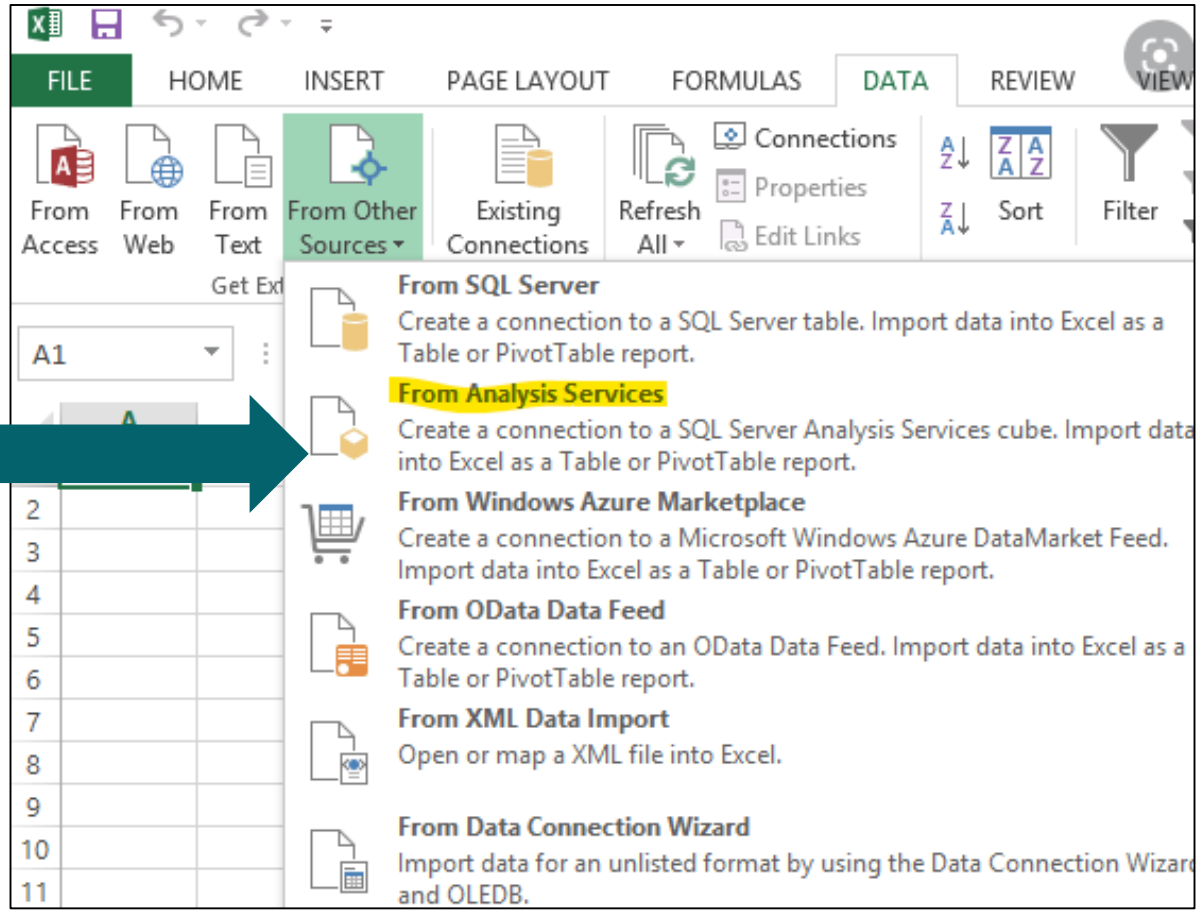


How to Make a Cube

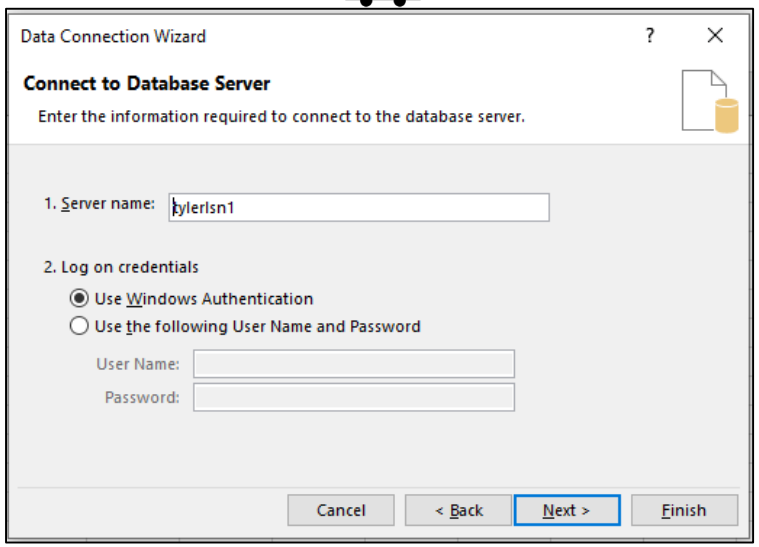
1. Go to Data Tab > From Other Sources > From Analysis Services

Helpful hint: To remember where to go, just look for the option with the cube next to it!

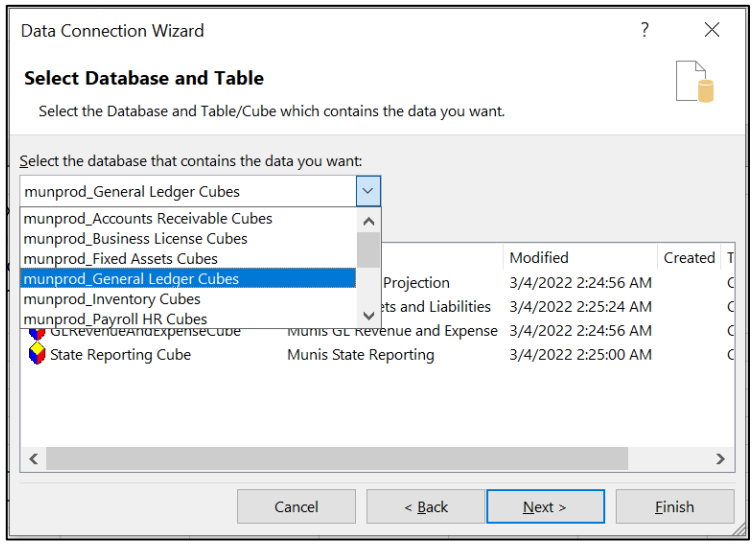




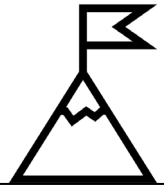
2. Conquer the Data Connection Wizard

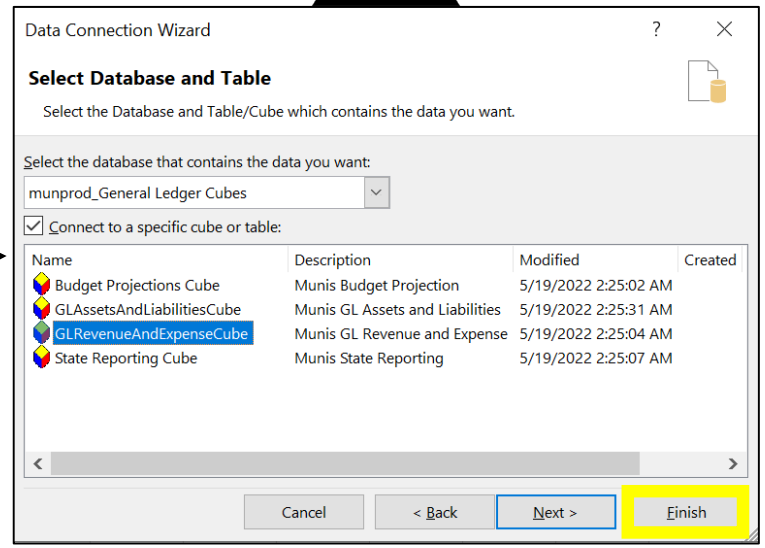


Server Name: tylerlsn1



General Ledger Cubes

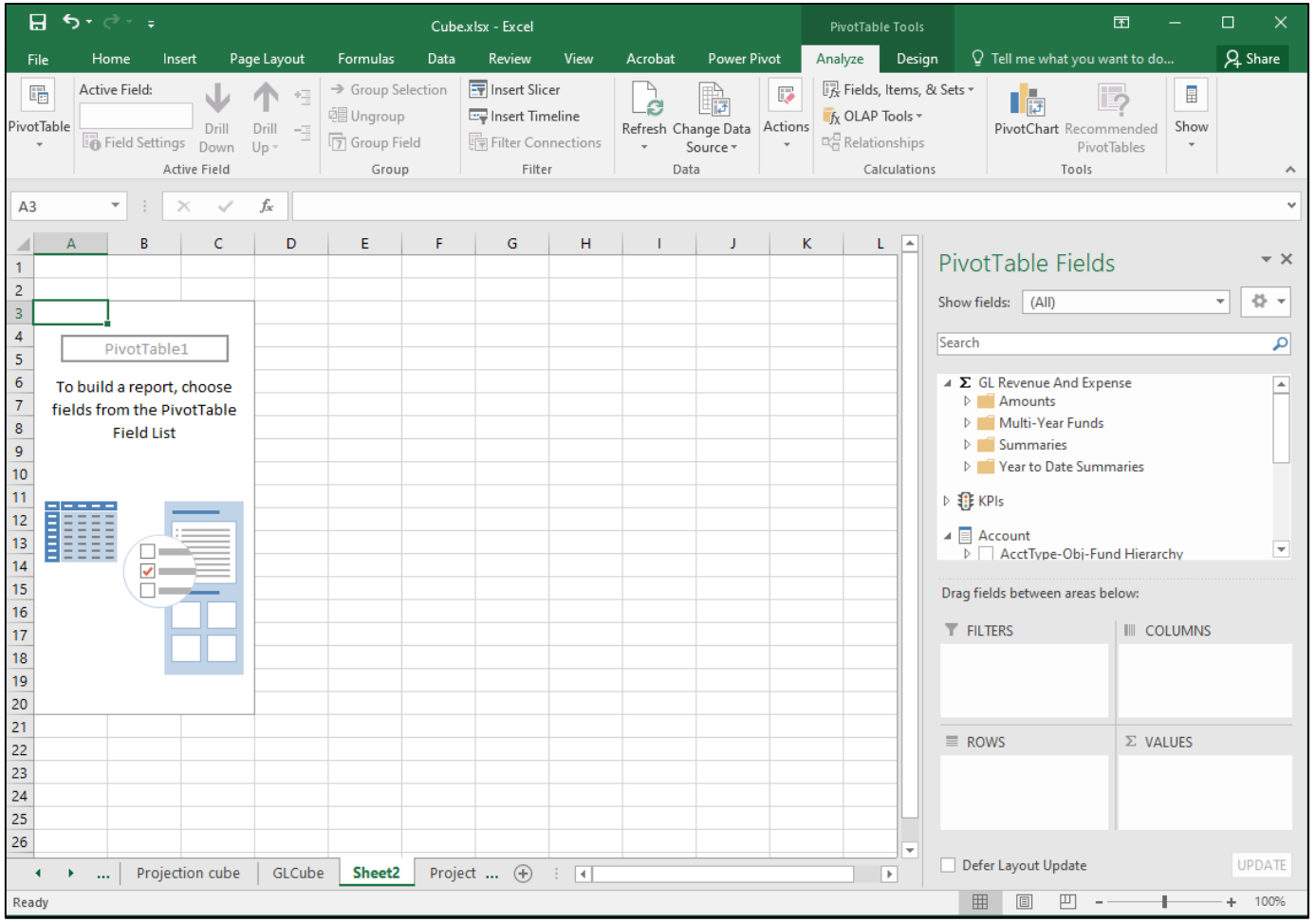




GLRevenueAndExpenseCube

Wizard by Wes Breazell from NounProject.com
Victory by Naveen from NounProject.com

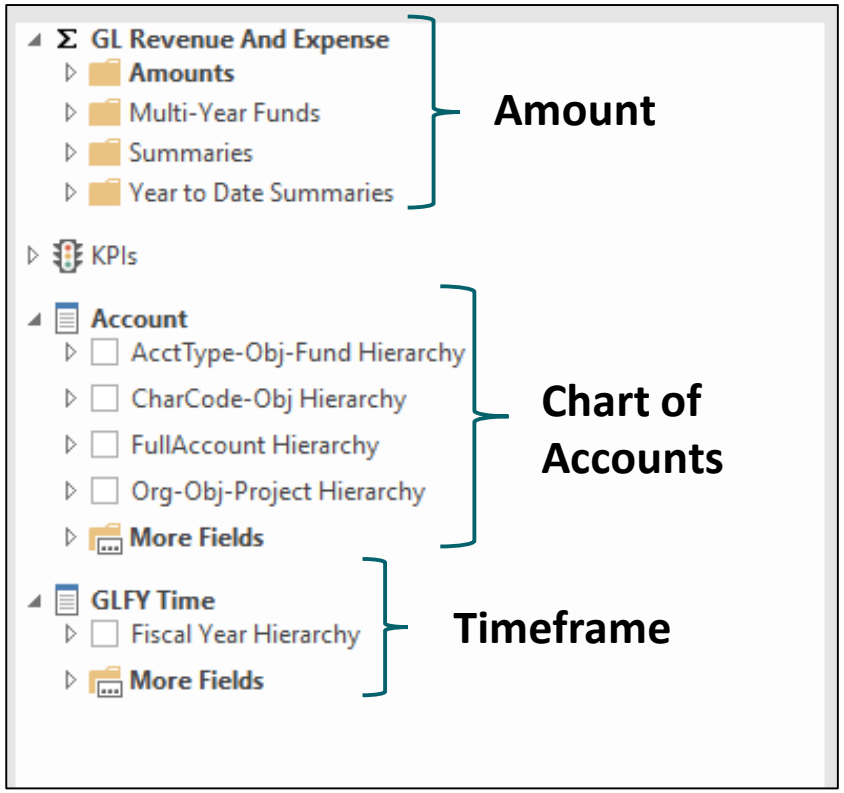
3. Get the info!



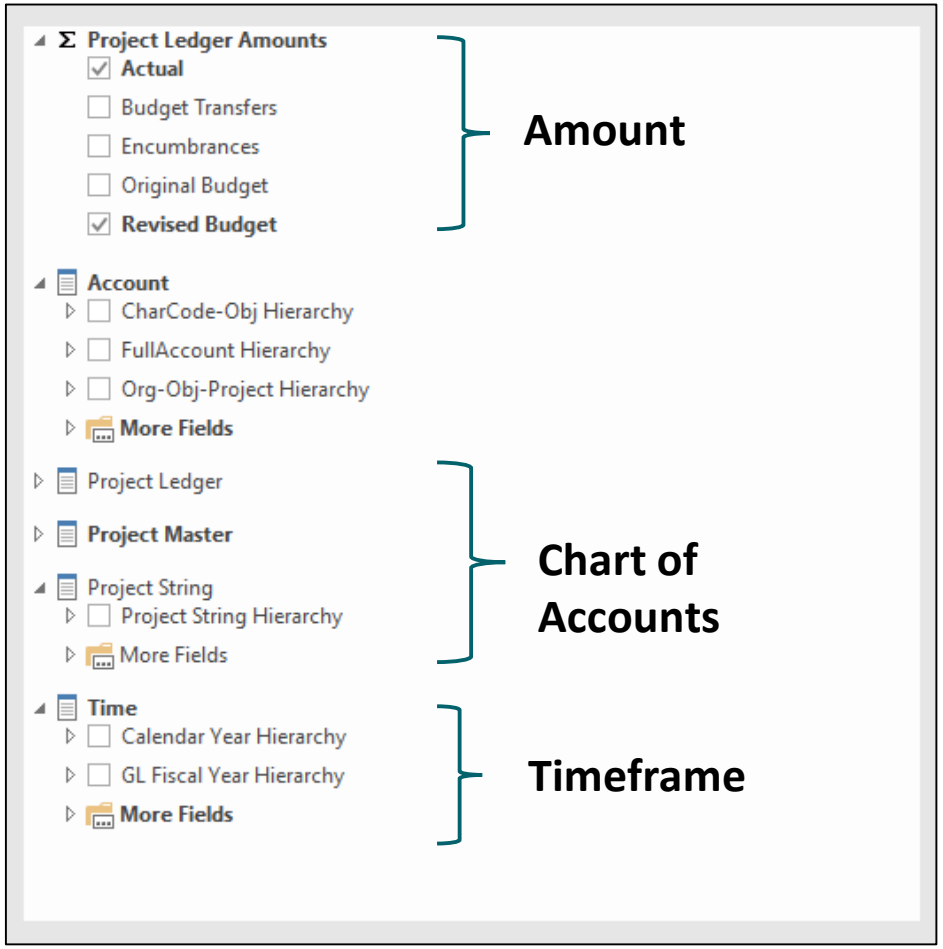
Drag items under "PivotTable Fields" to Filters, Rows, Columns, and Values fields to manipulate

3. Reminder of What's Available

GL Cubes



PL Cubes

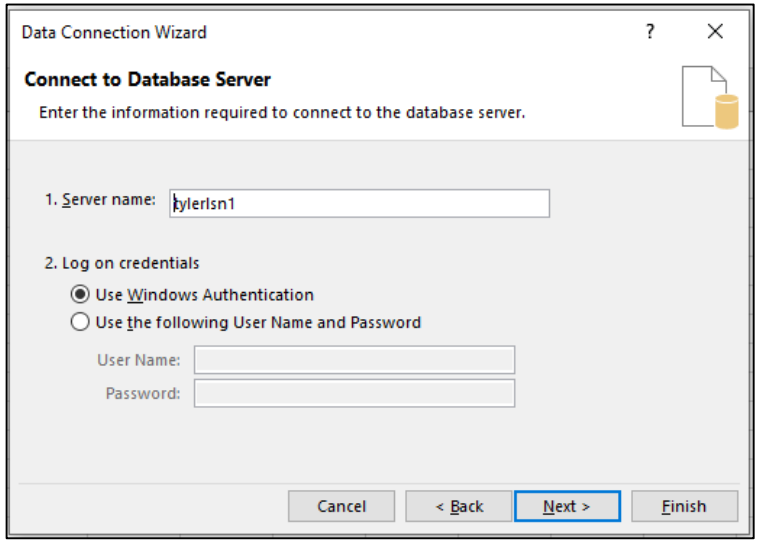


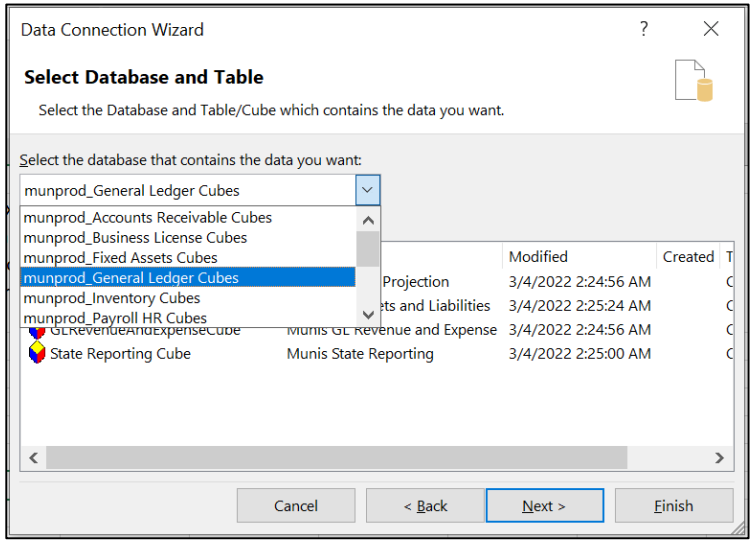
Demonstration

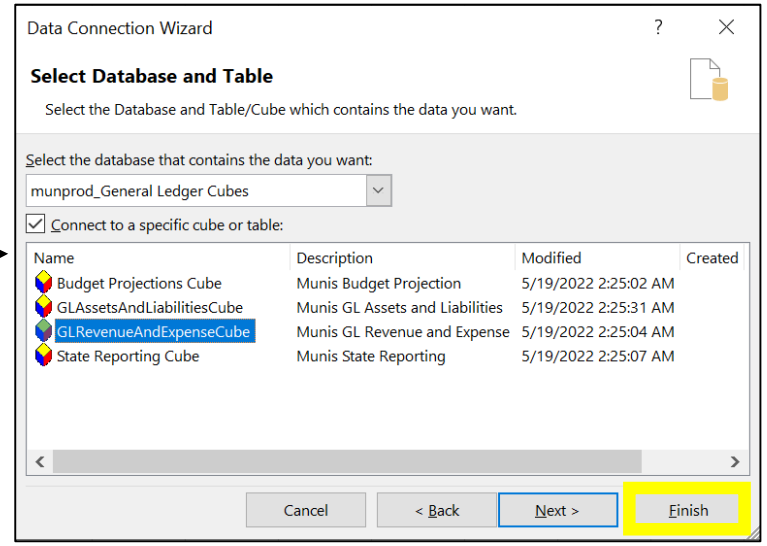
📦 Let’s stretch the brain muscle with cubercise!

Cubercise 1

- What was your agency's 2021 actual expenditures for perm wages (51110)?







Server Name: tylerlsn1

General Ledger Cubes

GLRevenueAndExpenseCube

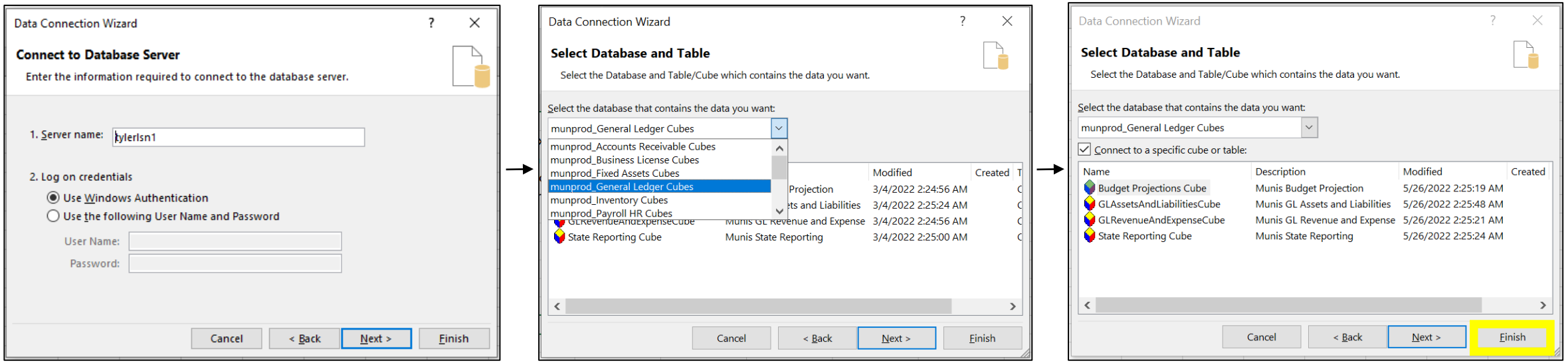
Cubercise 1

- What was your agency's 2021 actual expenditures for perm wages (51110)?

	A	B
1	Object	51110 - PERMANENT WAGES
2		
3	**Actual**	**Column Labels**
4	**Row Labels**	**2021**
5	00 - UNDEFINED	$4,739,722.66
6	10 - ASSESSOR	$1,799,818.08
7	11 - ATTORNEY	$2,257,573.85
8	12 - CIVIL RIGHTS	$1,512,598.13
9	13 - CLERK	$634,811.14
10	14 - COMMON COUNCIL	$207,461.75
11	15 - FINANCE	$3,140,780.22
12	16 - HUMAN RESOURCES	$1,513,938.79
13	17 - INFORMATION TECHNOLOGY	$4,077,072.28
14	19 - MAYOR	$1,131,885.95
15	20 - MUNICIPAL COURT	$359,388.47
16	21 - TREASURER	$0.00
17	22 - EMPLOYEE ASSISTANCE PROGRAM	$284,916.98
18	30 - FIRE	$35,471,301.49
19	31 - POLICE	$45,902,896.66
20	32 - PUBLIC HEALTH MADISON DANE	$11,840,076.79
21	33 - OFFICE OF INDEPENDENT MONITOR	$0.00
22	40 - ENGINEERING	$3,435,985.71

Cubercise 2

- What is your agency's current 2023 cost-to-continue budget (Level 1)?
  - Type of cube? Projection
  - Amount? Level 1 (cost to continue)
  - Chart of Accounts? Segment 3 (agency)
  - Timeframe? Projection number (2023X)



Cubercise 2

- What is your agency's current 2023 cost-to-continue budget (Level 1)?

	A	B
1	Projection Number	(Multiple Items)
2		
3	**Row Labels**	**Level 01**
4	00 - UNDEFINED	-256,471,438.02
5	10 - ASSESSOR	2,925,797.87
6	11 - ATTORNEY	2,938,832.31
7	12 - CIVIL RIGHTS	2,135,405.51
8	13 - CLERK	3,728,986.73
9	14 - COMMON COUNCIL	858,281.56
10	15 - FINANCE	4,076,499.93
11	16 - HUMAN RESOURCES	1,712,743.28
12	17 - INFORMATION TECHNOLOGY	9,300,238.08
13	19 - MAYOR	1,164,749.81
14	20 - MUNICIPAL COURT	224,260.22
15	21 - TREASURER	0.00
16	22 - EMPLOYEE ASSISTANCE PROGRAM	470,826.26
17	28 - ROOM TAX COMMISSION	0.00
18	30 - FIRE	63,985,686.97
19	31 - POLICE	83,276,007.33
20	32 - PUBLIC HEALTH MADISON DANE	72,248.04

Note: Finance is still prepping for operating kick-off, so **the numbers in this cube are <u>not</u> final**. In other words, don't panic at what you see!

Limitations of Cubes

Cube Tips and Tricks

- Should be able to email cubes to others, and their Munis access should drive what they can see.
- Refreshing is a blessing and a curse. To keep an artifact, break the connection – Excel > Data > Connections > Remove.
- When first creating a cube, check it against the Munis Account Inquiry to make sure it is in line with expectations.
- Note: Cubes have a one day lag.

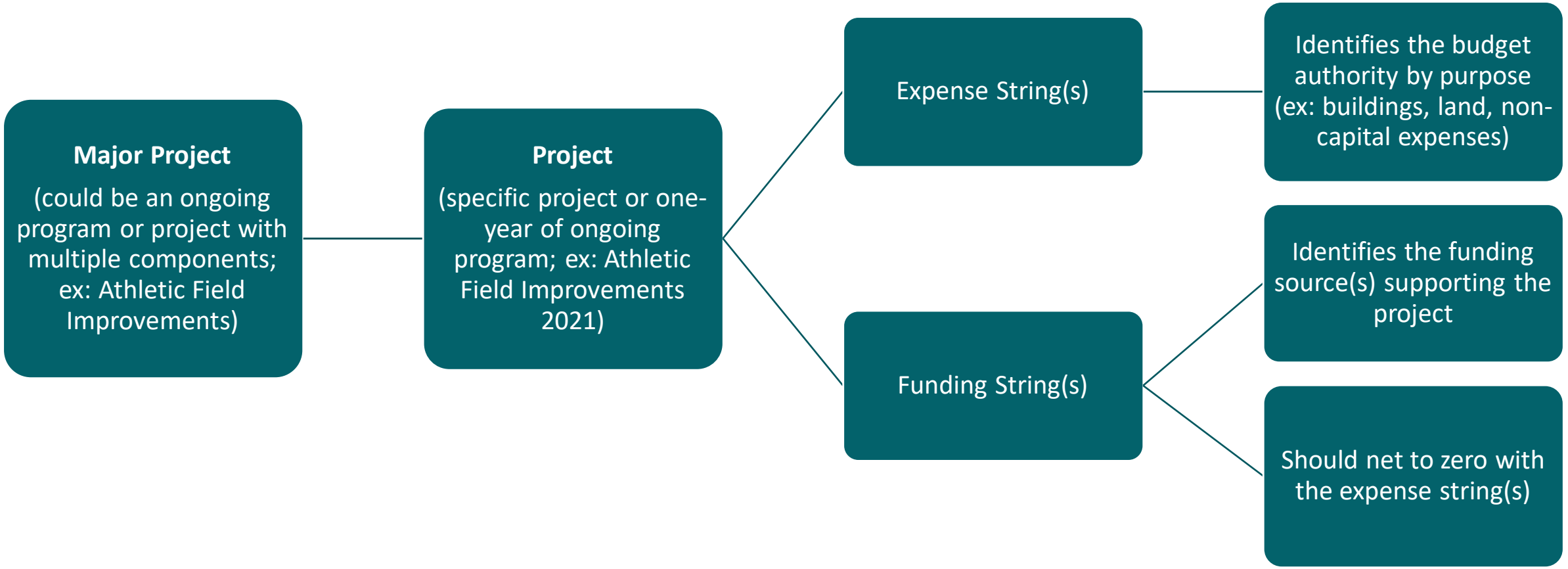
Testimony from a Real Cube User!

Kathy Schwenn – Water Utility Financial Manager and Cube User Extraordinaire!

GO FORTH AND CUBE!

It takes a bit of practice to work with cubes, but makes analyzing MUNIS data much easier and more efficient! Try practicing with them to solve a specific problem, and don’t be afraid to “break them”!

Reference: Cube Glossary

- Segment 3: Agency
- Segment 4: Service
- Character code: Major
- Encumbrance: Money that is obligated to be spent but has not be spent
- Requisition: Money that is on its way out the door
- Project String Type: Indicates whether the string is for expenditures or revenues, helpful filter

Project Ledger Setup