# Now for the tactical presentations...

What does it mean to add a data administrator to your organizational chart?

# Tactic #1:

# Build the data warehouses...and the mentality

### SO YOU'VE HIRED A DATABASE ADMINISTRATOR – WHAT WILL THEY ADMINISTER?

MAPPROACH

to integrate, validatis, and take full potentiage of ever growing member data. Credit unions have been taked wi

- □ Today, most CUs have key vendors who have data, and have assigned key leaders in the CU to specialize in understanding this data
  - In other words, who knows the data that's important to your credit union via your relationship with CU\*Answers?
- A database administrator sees the forest, not the trees
  - Sooner or later, they'll want a warehouse that gives the forest perspective, as a central place from which to work



Data warehouses are simply places where people store data

But getting your hands around the data that is stored in dozens of places can be a daunting task, and sooner or later, a data administrator will a special storage place



# Why these people get excited about data warehouse strategies

ANALYSIS IS INTANGIBLE, DATA AND DATA WAREHOUSES ARE TANGIBLE (AND BUYING IS FUN)

# **FILEXX**

Your primary production database

# **FILEXXSS**

A constant view as of previous EOD

# **FILEXXE**

EOM snapshots

# **QUERYxx**

Storing your analytical approaches

# **FILExxDW**

You control the data as it merges for your tactics

# Analytics Booth

Outside of the POWER i, space for innovation

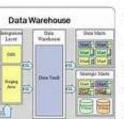
# What will you buy, and how will you use it?

### ASTERISK INTELLIGENCE IS ENTERING THE DATA WAREHOUSING BUSINESS

☐ When you complete your due diligence you may want to use our data warehouse and create your own data lake

 You may want to do neither, but after you send someone to learn about it, they'll want you to make the call

# Data warehouse



In computing, a data warehouse (DW or DWH), also known as an enterprise data warehouse (EDW), is a system used for reporting and data analysis. DWs are central repositories of integrated data from one or more disparate sources. They store current and historical data and are used for creating analytical reports for

knowledge workers throughout the enterprise.

Data warehouse - Wikipedia

# Data lake

Share

A **data lake** is a large storage repository and processing engine. They provide "massive storage for any kind of data, enormous processing power and the ability to handle virtually limitless concurrent tasks or jobs".

Data lake - Wikipedia, the free encyclopedia

Remember this: you have already paid for two-thirds of the data in the CU\*Answers data warehouse, and the fees for the final third are low and based on participation

### PART OF THE TWO-THIRDS YOU'VE ALREADY BOUGHT



Your primary production database

### *In 2017:*

- We doubled the amount of transaction history retained by CU\*BASE
- We added UDM (Unique Data Management)
  - Data customized by your CU
  - For accounts and general membership information

# UNIQUE DATA MANAGEMENT

## *In 2018:*

- Envisioning new CU self-directed data flood features
- Additional files for UDM
- CU self-directed floods for UDM data



### PART OF THE TWO-THIRDS YOU'VE ALREADY BOUGHT



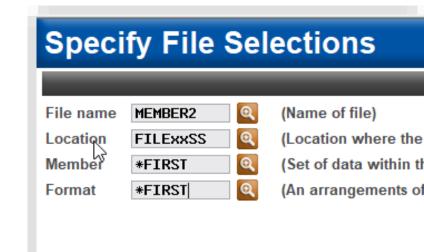
A constant view as of previous EOD

# *In 2017:*

- A new library for consistent data transfer processing
- Daily snapshot of the prior day's activity
- Data transfer programs are now being migrated to the FILExxSS library

# *In 2018:*

Introduce FILExxSS as a CU-employee accessible file for Query

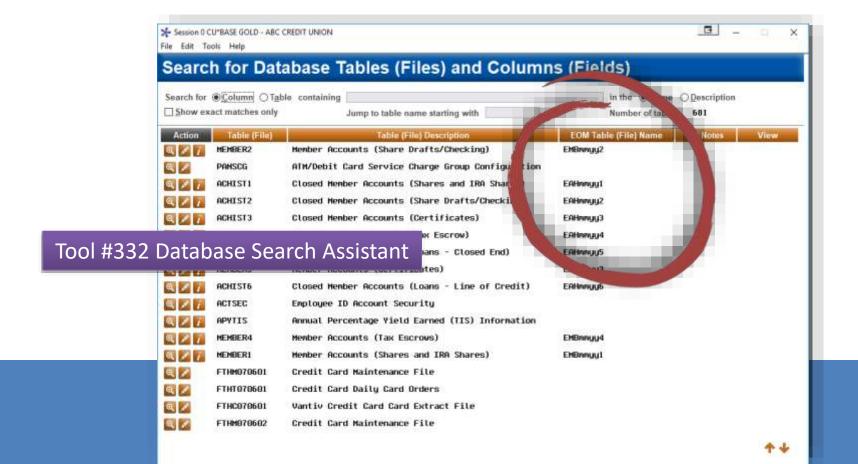


### PART OF THE TWO-THIRDS YOU'VE ALREADY BOUGHT



### *In 2017:*

Doubled the number of month-ends available to online clients, from 3 to 6



### PART OF THE TWO-THIRDS YOU'VE ALREADY BOUGHT



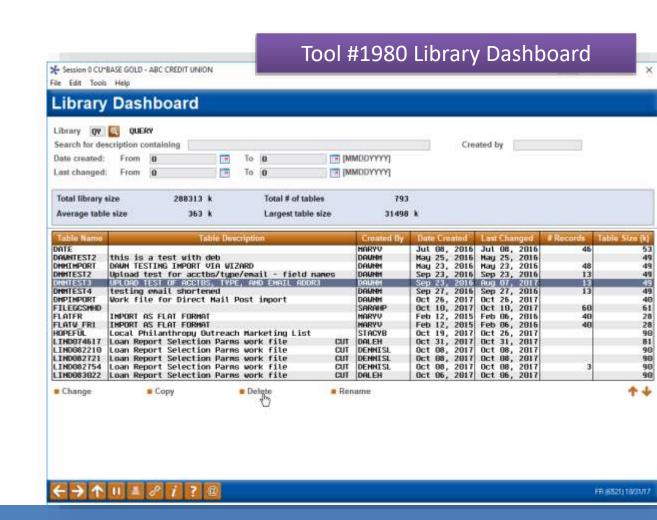
Storing your analytical approaches

## *In 2017:*

Added a new Library
Dashboard to analyze the database files your teams create via Query

### In 2018:

Add another premium tool for Query and presentation

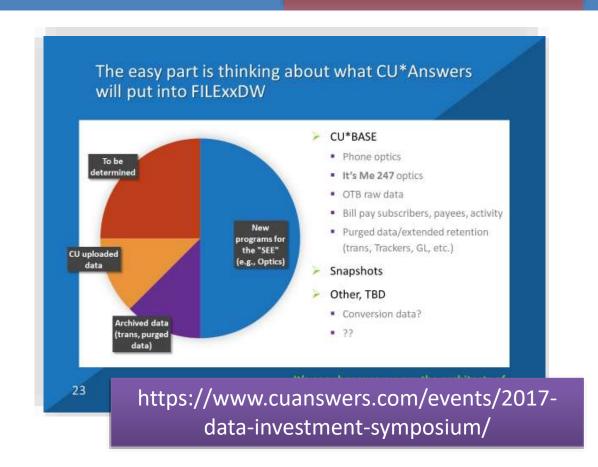


# Tactic #2:

# FILExxDW as a new frontier

# WORKING WITH CU ARCHITECTS, BUILDING THE DATA WAREHOUSE THEY WISH TO HAVE

- Today, CUs want to design their own approach and value propositions for the data they put into their individual warehouses
  - Share someone else's computer (coming in 2018)
  - Have your own (selling turn-key in 2019)
- Our FILExxDW warehouse will be a CU-directed space
  - The only data in it will be what you tell us to put there
  - We'll create unique data opportunities for CU\*BASE users, but CUs will choose whether or not to put that data into their warehouse



# WILL START SLOW, BUT BASED ON THE ATTENTION CUS ARE GIVING TO DATA WAREHOUSES, WILL PICK UP SPEED



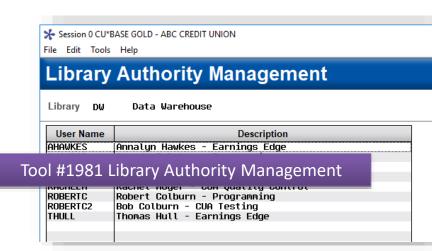
You control the data as it merges for your tactics

### *In 2017:*

Created the Library Authority Management tool

### *In 2018:*

- □ Rolling out to clients late 2<sup>nd</sup> half of 2018
- CU-defined data
  - About 80% sourced from CU\*BASE data warehouses
  - About 20% sourced from third-party sources
- Priced based on CU sign-ons + space used
- Premium tool for Query and presentation
- Developing DEX (Data Exchanges) with analytical warehouses as a transfer approach





### ANALYTICS BOOTH WILL BECOME A HYBRID: PRESENTATION + DIRECT ANALYSIS + WEB REPOSITORY



Outside of the POWER i, space for innovation

### In 2017:

- Sanitized database, safe for external web users
- Time-sliced based on short feedback loops
- Browser-based presentation
- Accessible anywhere WiFi or Internet services are available
- □ Foundation for audience expansion for both CU\*Answers as a CUSO and for CUs and their communities

### *In 2018:*

- Add ability for analysts to sign on directly to the AB database and work with their own presentation tools and skills
- Expand sales of AB from the CU\*Answers network to any CU in the country, independent of their core processing solution

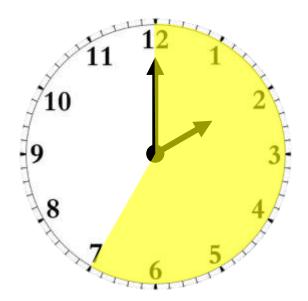


## Tactic #3:

# Develop a data transfer business

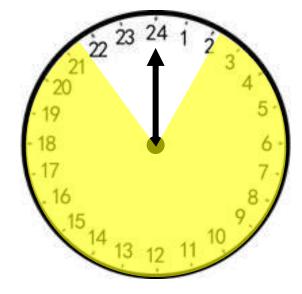
### WHAT IF DATA TRANSFER ROUTINES INCREASED BY 10X?

We would have to build a new machine



**Daily Operations** 

Limited time window before CUs are open for business



Data Transfers (FILExxSS)

Unlimited time window for data transfers and other vendor interactions



- DEX is a transfer protocol and service from CU\*Answers that will grow from 1x today (2 CUs) to 10x or more in the next two annuals
- DEX moves data to analytical databases where CU administrators and analysts do their work
- Today, DEX is a technical setup, tomorrow it will be an AI setup, and the day after that, it will be a self-service tool for a database administrator