

### of ANALYTICS EDUCATION

Preparing students for the future, millions of records at a time!

Data Analytics Education
UNDERSTANDING PROCESSES
EVALUATING PROCESS RISKS
WHAT EVIDENCE IS AVAILABLE?
HUB DATASETS!!!



### **DATVIRONMENTS**

#### 15 Million Records



Flat Files or Netsuite.com

## **DATVIRONMENTS**

BIBITOR, LLC

Payroll and Other Expenses

**\$441 M Sales** 

Sales & Purchases Flowcharts

79 Retail Locations

10,000 Brands

Retail Liquor Chain

#### **4 Million Records**



**Flat Files** 

## **DATVIRONMENTS**

BCGG, INC.

Accounts Receivable

**\$325 M Sales** 

Sales & Purchases Flowcharts

79 Retail Customers in New England

**10,000 Brands** 

Wholesale Liquor and Wine

### **5 Million Records**



**Flat Files** 

## **DATVIRONMENTS**

**Online Store** 

BA TOYS, INC (SOON)

Sales & Purchases Flowcharts

**\$400 M Sales** 

Retail Toy
Store

20 Northeast Retail Locations

**4,000 Brands** 

### **Social Media**

# Opponent Data



**Flat Files** 

## **DATVIRONMENTS**

**NU ATHLETICS (SOON)** 

Merchandise

Alumni Donations

**Ticket Sales** 

Concessions

19 Sports

Facebook, Twitter, Instagram

**Attendance** 

Weather

### **Multiple Asset Funds**



**Flat Files** 

## **DATVIRONMENTS**

# PRAESTRIGIO FUNDS (SOON)

**Equity Funds** 

**Derivative Transactions** 

Fixed Income Funds

**P/S Blotter** 

**NAV** 

# Dataset for Tax Questions



Data with Fraud

## **DATVIRONMENTS**

**NEXT?** 

Infor's CloudSuite

**Internal Controls** 

Multiple
Driver Cost
Data

**Supply Chain Routing Data** 

**More BI Tools** 

**Secondary Education** 

Manufacturing



### **DATVIRONMENTS**

- Comfort with Excel
- 12.7 MILLION RECORDS IN ONE FILE!!!
- Process Understanding Becomes Critical
- New Tool Kit Items Technology and Statistics
- Rely on logic to answer relevant audit questions



### **COURSE APPROACH**

- Focus on developing audit questions
- Using BI Tools and Visualization Tools to develop answers
- Communication in the audit workpapers

# ORACLE NETSUITE

# Gain an Understanding of the Client

- What is Bibitor's business?
- How many locations do they have?
- What do their historical financials tell us?
- How do they handle centralized expenses?
- How do they record sales at the individual stores?
- How do they manage purchases?

# ORACLE NETSUITE

- Gain an Understanding of the Client
  - Use HUB Process Flowcharts and Manuals
  - Use Oracle | Netsuite to increase task realism

# • EXAMPLE – ACL Inventory Roll Case

- Bibitor, LLC
  - Sales File June 30, 2016
  - Purchases File June 30, 2016
  - Beginning Inventory July 1, 2015
  - Ending Inventory June 30, 2016
- ACL

# • EXAMPLE – ACL Inventory Roll Case

- Does Beginning Inventory + Purchases Sales = Ending Inventory Quantities?
  - Understanding the Data Tables
  - Converting Data Tables to Common Frames
  - Determining the Method to Link Data Tables
  - Calculating New Variables



### • CHALLENGES

- Operating Systems Issues
- Load data times (first time)
  - Blending/Joining data
- Sharing workbooks due to the size of files
  - Not currently running on servers



### **NEXT STEPS**

- Publish more cases and exercises across disciplines
- Add more BI Tools
- Create more datasets
- Become a clearing house for all Analytics Education Resources
- HUB Co-Founders are here to SERVE!



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