## Logic Matrix Puzzles:

A Learning Strategy for Transforming Unstructured Data to Structured Data in Support of Decision Making

#### The BCHS Lab\*

Presenters:

Janell Blazovich

Suzanne Shoukfeh

June 30, 2023



The Association of Accountants and Financial Professionals in Business

\*This project is from The BCHS Lab.
Founding members are Drs. J. Blazovich,
H. Carrasco, J. Huston, and S. Shoukfeh

### Featured Presenters



Janell Blazovich
Associate Professor
University of St. Thomas



Suzanne Shoukfeh
Assistant Professor of Practice
Texas Tech University



## Poll Question 1: Have you ever used logic puzzles as a learning tool in accounting courses?

- a) Yes, frequently.
- b) Yes, occasionally.
- c) No, but I'm interested in trying.
- d) No, and I don't see the value in using them.

## **Primary Objectives**

1. Develops critical thinking skills

2. Emphasizes the importance of data transformation

## Secondary Objectives

3. Engages learners using gamification

4. Introduces learners to IMA's Competency Framework

## Importance of Developing Critical Thinking Skills

- To develop critical thinking, students need maturity and educational training.
- Critical thinking skills can be difficult to teach in a classroom setting.
- As educators we have a responsibility to provide students with opportunities to learn and practice critical thinking skills, including in the context of data analysis.



### Critical Thinking – Logic Puzzle Case

#### Goals\*

- Demonstrate ability to apply logical thinking to interpret and create conditional statements and apply relational concepts.
- Recommend a course of action by developing relevant questions and comparing and engaging alternative and iterative analyses.

#### Learning Objectives\*

- Apply relational logic concepts to answer questions.
- Interpret conditional logic statements.
- Create a condition statement.
- Compare alternative analyses.
- Engage in iterative analyses.

## Importance of Data Transformation

- Data transformation involves the conversion of raw or unprocessed data into a usable format.
- Unstructured data may seem overwhelming to work with due to the lack of familiar organization.
- Transforming unstructured data into structured data is a critical skill that is essential to the decision-making process and requires higher-order thinking.

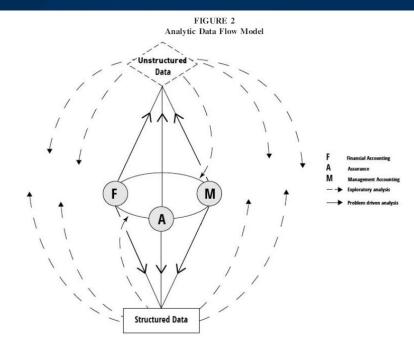


Figure from "Big Data Analytics: Opportunity or Threat for the Accounting Profession?" by Richins et al. *Journal of Information Systems* (2017) 31 (3): 63–79.

### Unstructured Data in Business

- Invitations to bid for jobs
- Invoices
- Contracts in an email or word document
- Product catalogs
- Customer reviews
- Customer postings on social media
- Phone calls
- Email communication from clients
- Voice mail recordings



## Data Transformation – Logic Puzzle Case

#### Goal\*

 Demonstrate ability to transform unstructured data by applying appropriate method to transform.

#### **Learning Objectives\***

- Extract data for decision making from unstructured data.
- Apply data transformation techniques.
- Determine methods to transform raw data (structured and unstructured) to make it useful for decision-making.

# Poll Question 2: How effective do you believe logic puzzles are in developing critical thinking and data transformation skills?

- a) Highly effective
- b) Moderately effective
- c) Somewhat effective
- d) Not effective at all

## Importance of engaging students with Gamification

- Adds variety to teaching methods.
- Soft skills are being left out of the curriculum.
- Critical thinking skills are difficult to teach in a classroom setting.
- Promotes long-term retention of knowledge.



# Importance of teaching the IMA's Core Competencies

- Serves as a comprehensive framework
- Designed to align with the evolving needs and demands
- Enables students to expand their career options and access a diverse array of opportunities



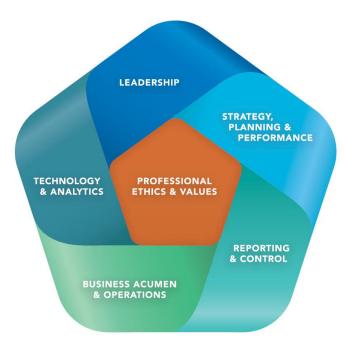
## Part 1 - See One: Logic Puzzle

## Puzzle Narrative



Source: https://depositphotos.com

## The IMA's Core Competencies



Source: https://www.imanet.org/en/Career-Resources/Management-Accounting-Competencies

|                                  |   | Stud   | dent   |   |
|----------------------------------|---|--|--|---|
|                                  | José  | Kai  | Lyla   | Veda  |
| May, 20X1                        |   |  |  |   |
| Summer, 20X1                     |   |  |  |   |
| December, 20X1                   |   |  |  |   |
| May, 20X2                        |   |  |  |   |
| Technology &<br>Analytics        |   |  |  |   |
| Strategic Planning & Performance |   |  |  |   |
| Business Acumen & Operations     |   |  |  |   |
| Reporting & Control              |   |  |  |   |
|                                  | Summer, 20X1  December, 20X1  May, 20X2  Technology & Analytics  Strategic Planning & Performance  Business Acumen & Operations | May, 20X1 Summer, 20X1 December, 20X1 May, 20X2 Technology & Analytics Strategic Planning & Performance Business Acumen & Operations | José Kai  May, 20X1  Summer, 20X1  December, 20X1  May, 20X2  Technology & Analytics  Strategic Planning & Performance  Business Acumen & Operations | José Kai Lyla  May, 20X1  Summer, 20X1  December, 20X1  May, 20X2  Technology & Analytics  Strategic Planning & Performance  Business Acumen & Operations |

| Graduation Date | Student | Top Strength |
|-----------------|---------|--------------|
| May, 20X1       |         |              |
| Summer, 20X1    |         |              |
| December, 20X1  |         |              |
| May, 20X2       |         |              |

Top Strength

**Business Acumen** 

& Operations

Reporting &

Control

Strategic Planning

& Performance

Technology &

**Analytics** 

#### Clues:

- 1 Veda is graduating in Summer 20X1.
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| ate             | May, 20X1                        |      |     |      |      |                           |                                  |                              |                        |
| Graduation Date | Summer, 20X1                     |      |     |      | 0    |                           |                                  |                              |                        |
| Iduati          | December, 20X1                   |      |     |      |      |                           |                                  |                              |                        |
| Gra             | May, 20X2                        |      |     |      |      |                           |                                  |                              |                        |
|                 | Technology &<br>Analytics        |      |     |      |      |                           |                                  |                              |                        |
| Strength        | Strategic Planning & Performance |      |     |      |      |                           |                                  |                              |                        |
| Top St          | Business Acumen & Operations     |      |     |      |      |                           |                                  |                              |                        |

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|                 | Technology &<br>Analytics        |      |     |      |      |                           |                                  |                              |                      |
| Strength        | Strategic Planning & Performance |      |     |      |      |                           |                                  |                              |                      |
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| Date      | May, 20X1                        | X    |     |      | X    |                           |                                  | X       |   |
|           | Summer, 20X1                     | X    | Х   | X    | 0    | X                         | X                                | X       |   |
| raduation | December, 20X1                   |      |     |      | Х    |                           |                                  | X       |   |
| Gra       | May, 20X2                        |      |     |      | Х    | X                         | X                                | 0       |   |
|           | Technology &<br>Analytics        |      |     |      | X    |                           |                                  |         |   |
| Strength  | Strategic Planning & Performance |      |     |      | X    |                           |                                  |         |   |
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| ate             | May, 20X1                        | Х    |     |       | Х    |                           |                                     | Х                            | Х                      |
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| ıduati          | December, 20X1                   |      | X   |       | Х    | X                         |                                     | X                            | X                      |
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|                 | Technology &<br>Analytics        |      | X   |       | X    |                           |                                     |                              |                        |
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| ate             | May, 20X1                        | Х    |      |      | Х    | 0                      | X                                   | Х                            | X                      |
| Graduation Date | Summer, 20X1                     | X    | X    | X    | 0    | X                      | X                                   | X                            | 0                      |
| aduat           | December, 20X1                   |      | X    |      | X    | X                      | 0                                   | X                            | X                      |
| Gre             | May, 20X2                        |      |      |      | X    | X                      | X                                   | 0                            | X                      |
|                 | Technology &<br>Analytics        |      | X    |      | X    |                        |                                     |                              |                        |
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| Date       | May, 20X1                        | X    |     |       | Х    | 0                         | X                                   | Х                            | X                   |
| on Di      | Summer, 20X1                     | X    | Х   | Х     | 0    | X                         | X                                   | X                            | 0                   |
| Graduation | December, 20X1                   |      | Х   |       | Х    | Х                         | 0                                   | X                            | X                   |
| Gra        | May, 20X2                        |      |     |       | Х    | Х                         | X                                   | 0                            | X                   |
|            | Technology &<br>Analytics        | X    | X   |       | Х    |                           |                                     |                              |                     |
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| Date       | May, 20X1                        | X    |         |      | X    | 0                         | Χ                                | Х                            | X                      |
| on<br>Di   | Summer, 20X1                     | Х    | Х       | X    | 0    | X                         | X                                | Х                            | 0                      |
| Graduation | December, 20X1                   |      | Х       |      | Х    | Х                         | 0                                | X                            | Х                      |
| Gra        | May, 20X2                        |      |         |      | X    | X                         | X                                | 0                            | X                      |
|            | Technology &<br>Analytics        | X    | X       | 0    | Х    |                           |                                  |                              |                        |
| Strength   | Strategic Planning & Performance |      |         | X    | Х    |                           |                                  |                              |                        |
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| on Di           | Summer, 20X1                     | X    | Х   | Х    | 0    | Х                         | X                                   | X                            | 0                    |
| Graduation Date | December, 20X1                   |      | Х   | X    | Х    | Х                         | 0                                   | X                            | X                    |
| Gra             | May, 20X2                        |      |     | X    | Х    | Х                         | X                                   | 0                            | Х                    |
|                 | Technology &<br>Analytics        | X    | X   | 0    | X    |                           |                                     |                              |                      |
| Strength        | Strategic Planning & Performance |      |     | Х    | X    |                           |                                     |                              |                      |
| p Sti           | Business Acumen &                |      |     | V    | V    | 1                         |                                     |                              |                      |

1 Veda is graduating in Summer 20X1.

Operations

- 2 The student, whose expected graduation date is December, 20X1, chose either Strategic Planning & Performance or Technology & Analytics as their top strength.
- 3 The student who ranked Reporting & Control as their top strength is graduating before Jose.
- 4 The student who ranked Business Acumen & Operations as their top strength is graduating after the student who ranked Reporting & Control as their top strength.
- 5 The student graduating in Summer 20X1 ranked Reporting & Control as their top strength.
- 6 The student named Kai, the student whose top strength is Technology & Analytics, and the student graduating in December 20X1, are all different students.

|            | [                                |      | Stu | ident |      |                           | Top S                            | trength                      |                     |
|------------|----------------------------------|------|-----|-------|------|---------------------------|----------------------------------|------------------------------|---------------------|
|            |                                  | José | Kai | Lyla  | Veda | Technology &<br>Analytics | Strategic Planning & Performance | Business Acumen & Operations | Reporting & Control |
| Date       | May, 20X1                        | X    | X   | 0     | X    | 0                         | X                                | X                            | X                   |
|            | Summer, 20X1                     | Х    | X   | Х     | 0    | Х                         | X                                | X                            | 0                   |
| Graduation | December, 20X1                   | 0    | Х   | Х     | Х    | Х                         | 0                                | X                            | Х                   |
| Gra        | May, 20X2                        | X    | 0   | Х     | X    | X                         | X                                | 0                            | X                   |
|            | Technology &<br>Analytics        | X    | X   | 0     | X    |                           |                                  |                              |                     |
| Strength   | Strategic Planning & Performance |      |     | Х     | Х    |                           |                                  |                              |                     |
| Top St     | Business Acumen & Operations     |      |     | X     | Х    |                           |                                  |                              |                     |

#### Clues:

1 Veda is graduating in Summer 20X1.

- 2 The student, whose expected graduation date is December, 20X1, chose either Strategic Planning & Performance or Technology & Analytics as their top strength.
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|                 |                                  |      | Stu | dent |      | 1                         | Top Strength                     |                                 |                        |
|-----------------|----------------------------------|------|-----|------|------|---------------------------|----------------------------------|---------------------------------|------------------------|
|                 |                                  | José | Kai | Lyla | Veda | Technology &<br>Analytics | Strategic Planning & Performance | Business Acumen<br>& Operations | Reporting &<br>Control |
| ate             | May, 20X1                        | Х    | Х   | 0    | Х    | 0                         | X                                | Х                               | Х                      |
| Graduation Date | Summer, 20X1                     | Х    | Х   | Х    | 0    | Х                         | X                                | X                               | 0                      |
| ıduati          | December, 20X1                   | 0    | Х   | Х    | Х    | Х                         | 0                                | X                               | X                      |
| Gra             | May, 20X2                        | Х    | 0   | Х    | Х    | Х                         | Х                                | 0                               | X                      |
|                 | Technology &<br>Analytics        | X    | X   | 0    | X    |                           |                                  |                                 |                        |
| Strength        | Strategic Planning & Performance | 0    | X   | X    | X    |                           |                                  |                                 |                        |
| IĊΩ             |                                  |      |     |      |      |                           |                                  |                                 |                        |

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Business Acumen & Operations

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|     | ı                                |      |      |      |      |
|-----|----------------------------------|------|------|------|------|
|     |                                  |      | Stud | dent |      |
|     |                                  | José | Kai  | Lyla | Veda |
| 9   | May, 20X1                        | Х    | Х    | 0    | Х    |
|     |                                  | X    | X    | X    | 0    |
| 100 | December, 20X1  May 20X2         | 0    | X    | X    | X    |
| Ġ   | May, 20X2                        | X    | 0    | X    | X    |
|     | Technology &<br>Analytics        | X    | X    | 0    | X    |
| 4   | Strategic Planning & Performance | 0    | X    | X    | X    |
|     | Business Acumen &                | X    | 0    | X    | X    |
|     | Reporting & Control              | X    | X    | X    | 0    |

| <b>Graduation Date</b> | Student | Top Strength            |
|------------------------|---------|-------------------------|
| May, 20X1              | Lyla    | Tech & Analytics        |
| Summer, 20X1           | Veda    | Reporting & Control     |
| December, 20X1         | José    | Strategic Plan. & Perf. |
| May, 20X2              | Kai     | Busi. Acumen & Ops.     |

Top Strength

**Business Acumen** 

& Operations

Reporting &

Control

Strategic Planning

& Performance

#### Clues:

- 1 Veda is graduating in Summer 20X1.
- 2 The student, whose expected graduation date is December, 20X1, chose either Strategic Planning & Performance or Technology & Analytics as their top strength.

Technology &

Analytics

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## After Part 1 - See One Logic Puzzle:

Part 2 - Do One

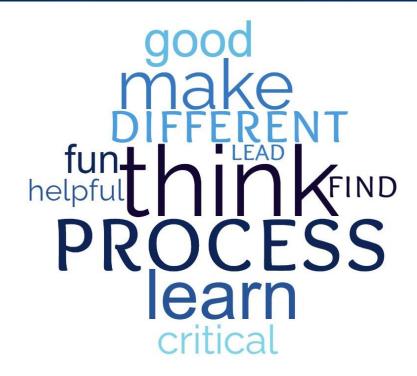
Part 3 - Teach One

Debrief

## Poll Question 3: Which aspect of logic puzzles do you find most beneficial?

- a) Problem-solving skills development
- b) Critical thinking and analytical skills enhancement
- c) Application of theoretical concepts in real-life scenarios
- d) Increased engagement and motivation

## Word Cloud: Student Takeaways



### Word Cloud: Student Perception of Real-World Application



### What you can look forward to from The BCHS Lab...

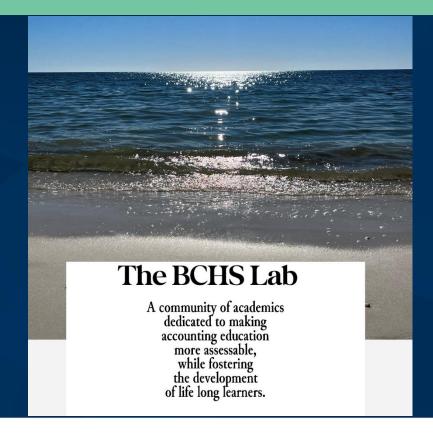
## **Exploring Accounting Career Diversity**

- Explore the Institute of Management Accountants' (IMA) website
- Review the IMA's Management Accounting Competencies
- Read and summarize two IMA articles related to one of the core competencies
- Recommend an IMA article to a friend be creative!

# Poll Question 4: Do you believe introducing career diversity to accounting students will effectively broaden their career choices?

- a) Highly effective
- b) Moderately effective
- c) Somewhat effective
- d) Not effective at all

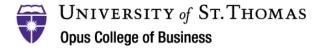
# Questions and Answers





The Association of Accountants and Financial Professionals in Business





## Thank you!



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