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Class: ECO 32500 - Python for Business Analytics

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HW 7: Order PB&J From Local Bodega

1. Identify the problem, metric, be specific

- **Problem:** You want to buy a PB&J sandwich from a local bodega (Objective: get a freshly made PB&J sandwich with your desired specifications).
- **Question:** What is the best way to efficiently order a PB&J sandwich to ensure it's made to your liking and within a reasonable time?
- **Why the question:** Placing a clear and efficient order helps avoid misunderstandings, wait time, and any issues with the sandwich being made incorrectly.

2. What do I need to know to answer the question?

- Understand how to communicate your specific sandwich preferences and navigate the ordering process at the bodega.
- **What needs to be given:**
 - Bread type (e.g., white, wheat, sourdough).
 - Peanut butter preference (e.g., creamy or crunchy).
 - Jelly flavor (e.g., strawberry, grape).
 - Any additional preferences (extra peanut butter, add-ons like banana or drink).
- **Beginning data:** Decide on your specific preferences for bread, peanut butter, and jelly before arriving.
- **Collect data for:** Ensuring that the bodega has the ingredients you want and that you're clear on any customizations.

3. Identify all things I need to know before ordering

- **Budget:** Ensure you have enough cash or a card to pay for the sandwich, and be aware of any pricing if adding extras.
- **What raw data:** Your personal preferences for the PB&J and any dietary restrictions (e.g., peanut allergies).
- **Inferences:** Based on the bodega's menu or usual service, estimate how busy they might be and how long it could take.

4. Organize the data and decide what I need to collect

- **Data Cleaning:** Make sure you're clear on your preferences to avoid confusion when ordering.
- **Outliers:** If the bodega doesn't have certain ingredients or extras you want, be prepared to adjust your order.
- **Make data usable:** Organize your preferences in a simple, concise order to make communication smooth.
- **Data Relationships:** Understand the order of preference (e.g., bread type, peanut butter type, jelly flavor) to communicate effectively.

- Make sure they know your order and don't infer they remember it. They have a lot of customers.

5. Find and identify the relationships

- **Look for:** Connections between your order specifics and the options available at the bodega to avoid miscommunication.
- **Outliers:** If you have special requests (e.g., extra peanut butter or specific jelly flavor), ensure these are clearly mentioned.
- **Percentage:** Think about how often you might want to customize (e.g., adding a banana) and decide if it's necessary for this order.
- **Chart:** Visualize your order flow from bread choice to final payment to ensure you're covering all details.
- **Root cause:** Ensure the order is clear and concise to avoid any errors or delays in preparation.

6. Find a solution

- **Undo the problem:** If the order is incorrect or missing something, politely ask the staff to adjust or remake the sandwich as needed.
- **Change the situation:** Consider asking if they can make it as a standing order if you frequent the bodega and order the same PB&J often.