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Class: ECO 32500 - Python for Business Analytics

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HW 4: Go to Google.com

1. **Identify the problem, metric, be specific**

- **Problem:** You need to access Google.com (Objective: to reach the Google homepage quickly and successfully).
- **Question:** What is the best way to navigate to Google.com and start using the search engine?
- **Why the question:** Accessing Google quickly and efficiently allows you to search for information without wasting time.

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

- **Action point:** Understand the method you'll use to access the internet (e.g., browser or device).
- **What needs collecting:**
  - **Device:** Is it a phone, tablet, or computer?
  - **Browser:** Are you using Chrome, Safari, Firefox, or another?
  - **Internet connection:** Ensure your device has an internet connection (WiFi, cellular, etc).
- **Beginning data:** Open a browser on your device and check for an active internet connection.
- **Collect data for:** Navigating to Google.com through a web browser or by using a search bar if available.

3. **Identify all things I need to gather before going to Google.com**

- **Budget:** Ensure that you have data or access to Wi-Fi to avoid additional charges if applicable.
- **What raw data:** The URL "www.google.com" and the status of your internet connection.
- **Inferences:** Based on your browser and device, decide on the quickest way to open the browser and reach Google.

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

- **Data Cleaning:** Ensure no other unnecessary apps or tabs are open that might slow down your browser or connection.
- **Outliers:** If your internet is slow or your browser is not responding, you might need to troubleshoot or restart the device.
- **Make data usable:** Type the URL correctly in the address bar or use the search bar in the browser.
- **Data Relationships:** Understand how the browser interacts with the internet connection to load websites properly.
- **Apparent vs. Inferred:** Don't assume the browser will automatically go to Google; you must type the URL or set it as a homepage.

## 5. Find and identify the relationships

- **Look for:** The connection between entering the URL or opening a browser and accessing the Google homepage.
- **Outliers:** If Google doesn't load, check for issues like typos in the URL, browser problems, or internet issues.
- **Percentage:** How often do you access Google directly versus through a search bar? Adjust your method for speed and convenience.
- **Chart:** Visualize the process from opening the browser to successfully loading the page to ensure it's efficient.
- **Root cause:** Ensure that both the browser and internet connection are functioning properly to avoid issues in accessing Google.

## 6. Find a solution

- **Undo the problem:** If Google doesn't load, double-check the URL or troubleshoot internet issues like Wi-Fi connection or browser settings.
- **Change the situation:** Consider setting Google as your homepage to streamline future access or adding it as a bookmark for quicker navigation.

## 7. Presentation/Tell a story

- **Opportunities:** Through this process, you can streamline your web-browsing experience by ensuring quick access to Google, enabling more efficient internet searches.