**Project Proposal: Analyzing Restaurant Accessibility in San Francisco**

**Project Scope:** The purpose of our project is to analyze restaurant accessibility in San Francisco by integrating data from the Yelp API and Walk Score API. We aim to extract relevant details about restaurants within the city limits and evaluate their accessibility via public transportation and pedestrian infrastructure. The goal is to identify patterns in accessibility and highlight potential areas for urban development and business opportunities.

**Data Sources:**

* **Restaurant Data (Yelp API):** Includes details such as restaurant names, coordinates (latitude and longitude), ratings, price ranges, and types of cuisine.
* **Accessibility Data (Walk Score & Transit Score API):** Includes walkability and transit scores for specific locations, reflecting the ease of access for pedestrians and proximity to public transportation.

**Data Transformation:**

**Extract, Transform, Load**

Extract: API, converting to pd dataframe   
Transforming: Drop irrelevant columns/records, rename columns, join with accessibility score, changing data types, create bin (rating, pricing),

Load: exporting as csv/ uploading it to SQL

**Questions to Ask:**

1. **Transportation and Restaurant Success**
   * What relationship exists between accessibility in San Francisco and the success/popularity of nearby restaurants?
     1. Popularity measured by # of reviews and rating score
2. **Consumer Behavior**
   * Does a higher accessibility rating correlate with higher restaurant ratings or increased # of reviews? (Regression)
     1. How does the type of transportation (walking vs. transit) affect the success/popularity of local restaurants?
   * Do more expensive restaurants have higher accessibility ratings?
     1. How does transportation accessibility impact restaurants across different price brackets (high-end vs. budget-friendly)?
3. **Variations Across Types of Transportation and Cuisine**
   * Does the accessibility of transportation affect restaurants differently depending on the type of cuisine they serve?
4. **Accessibility Influence Delivery and Pickup** 
   * Does accessibility to a restaurant matter as much if the business offers delivery?
     1. Separate businesses into those that deliver and those that don’t and then look at their ratings compared to accessibility
     2. Compare to normal ratings v accessibility without sorting.