Title: Restaurant ETL

Participants:

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Change History:

- Document created - January 22nd 2024
- App.py created to consolidate all cleaning methods - January 23rd 2024
- Finished database storing methods - January 24th 2024
- Finished presentation and analysis report - January 24th 2024

Overview:

Local restaurant - "Ricardo's" has requested help organizing their data for further analysis. They have sent all required data sets to the team for an ETL workover. This will assist the restaurant in understanding their business and help boost revenue moving into the future.

Objectives:

- Load and clean data. Remove unnecessary records.
- Business owners can view and manipulate data appropriately using data queries.
- Business owners can better understand the strengths and weaknesses of their current workflow.
- Create an SQL database and convert the current raw data in usable data using SQLite
  - Success Metrics:
    - The data is loaded and converted to separate pandas dataframes.
    - The data is free of any dubious entries and is clean and ready for use
    - The data is merged into one clean dataframe
    - The data is converted into a sql database where the tables are normalized
    - Sql queries can be successfully made on the database to derive information.

Messaging:

- Email
- Discord
- Slack
  **Please direct concerns that require immediate attention to SCRUM MASTER on personal phone number. (202) 714-9779

Timeline Release and Planning:

- Planning Phase: craft a clear plan which outlines the duties of all team members. Detail desired goals for clear understanding of design choices later on in the execution phase
  - Monday January 22nd
- Execution Phase: manage personal duties and maintain daily communication with the team, communicate any ongoing problems, hurdles etc with scrum master, clear line of communication within team is a priority
  - Tuesday- wednesday
- Presentation to stakeholders and company: communicate the project clearly to the stakeholders and be ready to explain processes in a simple to understand way to a non technical audience
  - Thursday

Personas:

- Ricardo, the restaurant manager, needs to better understand the business gets a high volume of customers vs less to better understand how many people are needed on the floor at all times.
- Travis, a cook, needs this product to manage the orders that need to be made.
- Stacey, the cashier, needs the saved credit card to cash out the customer who needs to pay for their order.

Scenarios:

- A restaurant owner needs to keep track of their orders and profits
- A head cook needs to see what to make and how much
- The cashier needs to charge an order to a customer's saved credit card

Features in:

- Have pandas dataframes to take information from our files into databases
- Have python scripts for ETL processes
- Have databases for storing our information
- Have a database schema outlining our databases

Features out:

- Clean and meaningful data
- Query designs for up-to-date customer information

Design:

- ● ER Diagram
- ● Queries for information gathering

Open Issues:

- ● Dealing with null instances/multiple nulls in records
- ● Phone number formatting

REQUIREMENTS:

Product Requirements Document
Python Scripts for ETL Processes
Database Schema (ER diagram)
Presentation Slides

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Scenarios:

Features In:

Features Out:

- Product Requirements Document (due end of Day 1)

- Python Scripts for ETL Processes

- Database Schema (ER Diagram)