Project Overview

Now that you are equipped with the knowledge and skills to design databases, create tables, and load data, you have the opportunity in the final project to practice and apply your skills by implementing a new data infrastructure.

Scenario

In this scenario, you have recently been hired as a Data Engineer by a New York based coffee shop chain that is looking to expand nationally by opening a number of franchise locations. As part of their expansion process, they want to streamline operations and revamp their data infrastructure.

Your job is to design their relational database systems for improved operational efficiencies and to make it easier for their executives to make data driven decisions.

Currently their data resides in several different systems: Accounting software, suppliers' databases, point of sales (POS) systems, and even spreadsheets. You will review the data in all of these systems and design a central database to house all data. You will then create the database objects and load them with source data. Finally, you will create subsets of data that your business partners require, export them, and then load them into staging databases that use different RDBMS.

Once you complete your assignment, please take the required screenshots of your work.
You can then submit your project using one of the following options:

Option 1 – AI-Graded Submission:
The system will automatically evaluate your completed tasks and provide instant feedback and grading based on your SQL implementation and results.

Option 2 – Peer-Reviewed Submission:
Submit the screenshots you captured as evidence of your completed work for peer evaluation. Ensure that your screenshots clearly display your **code, SQL queries, ERD, and outputs.**

Author(s)

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