#### **PROJECTS**

### 1. Mill Operations Optimization

**Technology**: Oracle, SQL, Python (pandas) and CSV

**Description** :

Ardent Mills is a company that operates in the business domain of food and agriculture. It is a leading flour milling and ingredient company that provides a wide range of products and solutions for the food industry. As a part of their new initiative they want to improve their operational efficiency, reduce waste, streamline processes, and enhance overall performance.

## **Roles & Responsibility:**

- Utilized Excel to collect and consolidate data from various mill operations.
- Conducted initial data validation and quality checks using Excel functions such as VLOOKUP, conditional formatting, and data validation rules to ensure data accuracy and consistency.
- Designed and deployed data pipelines with Python and Pandas, automating data extraction and ensuring consistency.
- Configured ETL processes, ensuring efficient data handling from extraction to loading.
  Designed database tables within the target system for optimal performance and data integrity.
- Provided insights to stakeholders through detailed Excel reports and interactive dashboards, supporting data- driven decision-making.

### 2. Vendor Management Inventory

**Technology**: SQL, Python (Pandas), Power BI and Microsoft Excel

# **Description**:

Collaborated with a team to develop and deploy the Vendor Management Inventory (VMI) system for Navajo Inc. This project utilized the data engineering techniques employing SQL, Python, and Pandas to optimize inventory management.

# **Roles & Responsibility:**

Untitled 1

- Analyzed project requirements to understand data structures and dependencies. Implemented SQL database schema aligning with business objectives.
- Utilized Excel for initial data validation and quality checks, employing functions such as VLOOKUP, conditional formatting, and data validation rules to ensure data accuracy and consistency.
- Leveraged Excel's formulas and advanced functions for complex calculations and data aggregation. Preprocessed, cleaned, and transformed raw data with Python and Pandas for analysis.
- Configured ETL processes, ensuring efficient data handling from extraction to loading into the target SQL
- database.
- Utilized Power BI for advanced analytics and generating actionable insights.

Untitled 2