Hunt Advantage Group - Pizza & Wings Sales Analytics

Engineering Architecture & Implementation Documen!

Author: Jeremy Bishep- Degreber 2023

1. Project Overview

This pedect simulates a real-world panallytica for retail food sales, focusing on mreische sensbmenic agcoss multiple store locations, A sedaland abvascaruoใช้คร สมองเอาทุก. แต่ก็ตู้ à เกออน กองบบุปปากาศา ทำ reporting, - ตก:l strategic orchest ation under licensing and platform constraints.

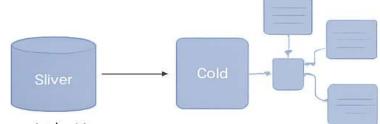
2. Architecture Summary

Bronze Laver - Raw Ingestion

- · Transformations: normolviation
 - Nonvizad columni admes and infials
 - Join store metadata with ordens
 - Calculated fields: pizza_combu, sentiment potently
- · Files; Python (Pandac)
- Outpur Locatiom—oorosinbil27\all_ngastiontsv_data\bronze

Sliver Layer - Cleand & Integrated

- · Transformations;
 - Normalized column nes and types
 - Joind store matiadata with orders
 - Calculated fields: picza_combo sentiment dirdently
- · Eavs; Python, DuckDB
- · Outpur Locatiomusooroinbraz\dD.ngastionstsv_data\gold



Reporting & Version Control

Power BI Desktop.

- Report.pliza_reporting.pinx
- Data from Guid-layer CSVs Messures:
 - Total Sales
 - Orders \\`\'a\'\value
 - Average-Order Value
 - ·- Winge Mix
 - Avs Seatiment

Version Control Srategy

Uses (pb) ((pb.) f. formab

(\pbi\prepte/

/powerbi_tempalate/

Benelfils

- · Lightweight versining
- · Separation of logic fromn data
- · Reusability across environments

Restriction	impact	Workarwand
Power Bi Desktop	 Lig/fiyilght veroning Separation of logic from data 	Plood as Dnecft/pollfurigcate Usen i e i 110 anack versioning Separation of logic from data Reusability across environments
Version Control Strategy	 Lightweight version Separation of logio from lably Reusability across environmends 	

Strategic Highlights

- Simulated Fabric style orchestration micuagoines
- Demuneciated mediation.architecture manually for transparency of control
- Used part and chaneylog elsceipline as work manon.
- Configured on prentses gaicing amanually indocumentation on adorumized active ethus ds

и Platform Restrictions & Workarounds

- Simulated Fabric style erchestration uth open-source tools
- Demonstrated medailion architecture for transparency and control

Next Steps

- Finalize Gold-layer aggregantions &-D-IX measures
- · Destiprifics contrand

Finchel of apponced an edicacu b, kgrittly adapted