Project 1 Checkpoint

Sample Superstore Dataset

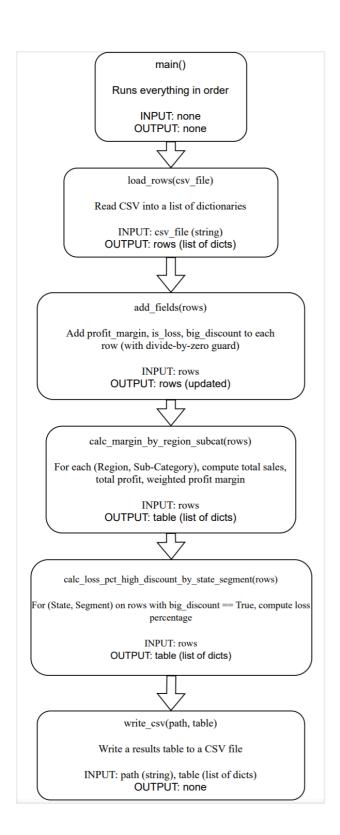
Columns I'll be working on:

- Measures: Sales, Profit, Quantity, Discount
- Dimensions: Region, State, Segment, Sub-Category, Category, Ship Mode
- Derived fields I'll create: profit_margin = Profit /
 Sales (guard Sales=0), is_loss = Profit < 0, big_discount = Discount >= 0.20

Calculations I'll perform:

- Calculation 1: Average profit margin by sub-category within each region
 - Uses: Profit, Sales, Sub-Category, Region
 - Method: For each (Region, Sub-Category), compute weighted margin = sum(Profit) / sum(Sales)
 - Output file: margin_by_region_subcategory.csv with columns: Region,Sub-Category,total_sales,total_profit,profit_margin
- Calculation 2: Loss rate for high-discount lines by state and segment
 - o Uses: Discount, Profit, State, Segment
 - Method: Filter rows where Discount >= 0.20; for each (State, Segment), compute percent with Profit < 0
 - Output file: loss_pct_high_discount_by_state_segment.csv with columns: State,Segment,num_lines,num_losses,loss_pct

Diagram:



Collaborator:

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