PROJECT SPECIFICATION

Create a Data Model for Seven Sages Company

Get and Transform data in Power Query

CRITERIA	MEETS SPECIFICATIONS
Use the Power Query Editor to transform data from source files into desired table structures for a data model.	The data model diagram shows a single fact table and four separate dimensions, three of which come from the currency, customer, and product source files.
Clean data and correct formatting as needed to meet the needs of a given data model.	Obvious typos and errors that might get in the way of data model/reporting functionality have been removed. The final matrix shows only three customer types for “Bar’, “Distributor” and “SSBC Tasting room”.
Create a date table in	A date table has been created using Power Query that is set to dynamically update based on the fact table’s start

CRITERIA	MEETS SPECIFICATIONS
PowerQuery that meets reporting requirements, including fiscal years.	and end data. The date table includes standard fields: • Continuous calendar dates • Month name, month number, calendar years • fiscal periods, fiscal years, and fiscal quarters

Build Relationships

CRITERIA	MEETS SPECIFICATIONS
Build relationships between tables.	A one-to-many relationship exists between every dimension table (the *one* side) and the fact table (the *many* side). In the PBIX file, all arrows point towards the fact table.

Dax Measures and Report Output

CRITERIA	MEETS SPECIFICATIONS
Build measures that meet key reporting requirements.	The following measures have been created, are present on the data model, and are clearly labeled: • Sales in USD ($) • Cost of Sales USD ($) • Gross Profit Margin (or GPM) in USD (%) • Sales in CAD ($) • Unit Sales by Product (%)

CRITERIA	MEETS SPECIFICATIONS
	• Share of gross profit by Product type (%) The measures are calculated using a formula and not hardcoded.
Create simple table, matrix and card visualizations in Power BI to test and validate the accuracy of a given data model, including measures.	The reporting layer includes two tabs. The first tab has: • Two card visualizations • One matrix • A text box that includes an executive summary of the key findings On the first tab, the totals are as follows: • **Total Sales in USD:** $167.57K • **Total Sales in CAD:** $224.21k • **% Gross Profit Margin in USD (Year total):** 14.7% Each value is reflected using the right format and clearly labeled. Time periods use *fiscal* rather than *calendar* quarters. The second tab has a simple table with two columns showing the percentage of sales and percentage of gross profit made up by each beer produced at SSBC. These total to 100%.

Suggestions to Make Your Project Stand Out!

1. Create a matrix that shows what product type (e.g., Keg, Six-pack) is most profitable **per serving** for SSBC. Note that this will require an additional measure for profitability per serving. Summarize your findings below the matrix you create. This tab should be labeled “SO1 - Product Type”.

2. **Does SSBC’s beer sell differently by month?** Create a new measure called “servings sold” to help create a standard measure that accurately reflects the amount of beer sold by product type according to the number of servings provided. Use this measure to create a matrix with product name (e.g., “Bamboo Grove Grolsch”) as rows and calendar months (i.e., “January”, rather than fiscal period 5) as columns. Summarize any seasonality you notice in sales below the matrix. Label the tab “SO2 - Seasonality”, While most sales remain consistent month to month, the Imperial Poet Porter increases in popularity from Sept-January, and then drops off again by March.