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# Create a Data Model for Seven Sages Company

REVIEW

CODE REVIEW

HISTORY

## Meets Specifications

Impressive. You did it!! 🙌😊

Hi, Amazing Xabier 🍷

**Congratulations you passed!!!!** 🔥🔥

You've shown a commendable persevering spirit. You demonstrated a good understanding of the data modeling and transformation concepts taught in the classroom.

- Cleaned the obvious typos.
- Built a correct dynamic table with the Power Query M-code
- Correctly connected your data with a one-to-many relationship.
- Wrote well-explained executive summaries.
- Perfectly laid out your reports with the right visuals.

It is an excellent grade for me. You showed admirable tenacity and resilience while working on this project. And I must say, I enjoyed reviewing your project. I look forward to seeing this quality work in your future projects. Good luck. 🙏

## Get and Transform data in Power Query

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.

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".

## Excellent 😊

I commend you for carefully cleaning the customer tables as required.

Data cleaning is a skill every good data analyst should have. You demonstrated these skills by inspecting all the affected tables and cleaning them as you should.

### Tips💡💡

- [Data Cleansing: What Is It and Why Is it Important?](#)

A date table has been created using Power Query that is set to dynamically update based on the fact table's start 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

## Great work!

One virtue of a good student is taking in feedback.

You correctly built your dynamic date table in the power query👍. There are so many ways Date tables can be created however, Power Query is preferred because it makes it easier to copy the M-code and reuse it in another report.

- Continuous calendar dates ✓
- Month name, month number, calendar years ✓
- Fiscal periods, fiscal years, and fiscal quarters ✓

### Additional resources📖

- [Power BI Blog: Creating a Dynamic Calendar Table](#)

## Build Relationships

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

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 (%)
- Share of gross profit by Product type (%)

The measures are calculated using a formula and not hardcoded.

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%.

### On the First tab

- Total Sales in USD: \$167.57K 

- Total Sales in CAD: \$224.21k
- % Gross Profit Margin in USD (Year total): 14.7%

On the second tab

- PCT Gross profit by-product
- PCT unit Sales by-product

SEVEN SAGE BREWING

167.57K

Sales Total, USD

224.21K

Sales Total, CAD

FY-Quarter	Q1-2021		Q2-2021		Q3-2021		Q4-2021		Total	
CustType	Sales(USD)	GPM (%)	Sales(USD)	GPM (%)	Sales(USD)	GPM (%)	Sales(USD)	GPM (%)	Sales(USD)	GPM (%)
Distributor	25,542.00	15.57	25,902.00	14.60	24,992.00	10.86	18,000.00	9.55	94,436.00	12.91
Barrel's Best	14,742.00	10.93	16,182.00	11.69	15,272.00	11.24	6,480.00	16.56	52,676.00	11.95
Rainier & Co.	10,800.00	21.91	9,720.00	19.44	9,720.00	10.28	11,520.00	5.61	41,760.00	14.13
Bar	19,919.40	13.90	16,569.27	14.89	17,739.28	14.32	14,569.36	14.18	68,797.31	14.31
Bike n' Brew	2,700.00	4.87	2,700.00	4.87	3,300.00	4.87	2,700.00	4.87	11,400.00	4.87
Puget's Finest	5,040.00	8.53	5,400.00	8.89	6,780.00	8.19	3,780.00	8.21	21,000.00	8.46
The Killer Well	5,999.40	9.16	2,229.27	12.68	2,519.28	11.74	2,799.36	9.42	13,547.31	10.27
Queens Arms	1,080.00	19.44	1,080.00	19.44	1,180.00	17.45	1,330.00	2.80	4,670.00	14.20
Saanich Pub	2,220.00	18.04	2,280.00	13.84	1,080.00	25.51	1,080.00	25.51	6,660.00	19.03
Toques and Blokes	1,080.00	33.78	1,080.00	33.78	1,080.00	33.78	1,080.00	33.78	4,320.00	33.78
The Black Bear	1,800.00	37.93	1,800.00	37.93	1,800.00	37.93	1,800.00	37.93	7,200.00	37.93
SSBC Tasting Room	1,114.52	61.62	1,109.51	61.13	1,053.54	60.65	1,057.56	59.83	4,335.13	60.82
Cash Purchase	1,114.52	61.62	1,109.51	61.13	1,053.54	60.65	1,057.56	59.83	4,335.13	60.82
Total	46,575.92	15.96	43,580.78	15.90	43,784.82	13.46	33,626.92	13.13	167,568.44	14.72

Executive summary: as it is possible to see in the table above, the customer type with the highest sales is the "Distributor". However, the one with the highest GPM for the fiscal year is the "SSBC Tasting Room", followed by the "Bar". The customer with the highest sales for this fiscal year is "Barrel's Best", a distributor and with the highest percentage of GPM is the only customer contained in the "SSBC Tasting Room"

Standout 🙌🔥

- You did an excellent job attempting the optional questions.
- I would recommend always showing trending visuals using a line chart. You can use this as an improvement in the seasonality tab.

SEVEN SAGE BREWING

Jahr	2020				2021								Total	
ProductName	December	November	October	Total	April	August	February	January	July	June	March	May	September	Total
Bamboo Grove Maibock	41	42	42	125	43	48	43	42	46	45	41	67	30	405
Han Dynasty Spiced Lager	14	14	14	42	17	14	14	14	14	14	14	19	14	134
Henan Hops Wheat Beer	31	30	36	97	31	18	30	30	30	30	30	32	36	267
Imperial Poet Porter	54	40	37	131	20	6	44	56	6	6	38	6	27	209
Liu Ling's IPA	12	12	12	36	15	12	12	12	12	12	12	12	12	111
Scholar's Saison	15	15	15	45	17	34	15	15	22	46	15	17	19	200
Total	167	153	156	476	143	132	158	169	130	153	150	153	138	1326

**Executive summary:** it is surprising that more beers are sold in winter (December, January, February) months than in summer months (July, August). On the other hand, the most sold beer is the "Bamboo Grove Maibock" followed by "Henan Hops Wheat Beer" and "Imperial Poet Porter", so it would be important to maximize the profit for these beers. On the other side, we can see the "Han Dynasty Spiced Lager" and the "Liu Ling's IPA", that are sold in a very low quantity. Finally, as the "Imperial Poet Porter" is mainly a "winter beer" (mostly sold in December, January, February and March) it would make sense to produce it just in winter months.

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