

[◀ Return to Classroom](#)

Create a Data Model for Seven Sages Company

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Impressive. You did it!! 🙌😊

Hi, Amazing Ans Jayan 🍌

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.

Great Job

You did an awesome job transforming and fixing all errors in your data tables.

Also, your data model is greatly improved and is more optimized since you merged tables with 1:1 relationships.

Further reading 📖

- [Merge Two Tables In Power BI](#)



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](#)

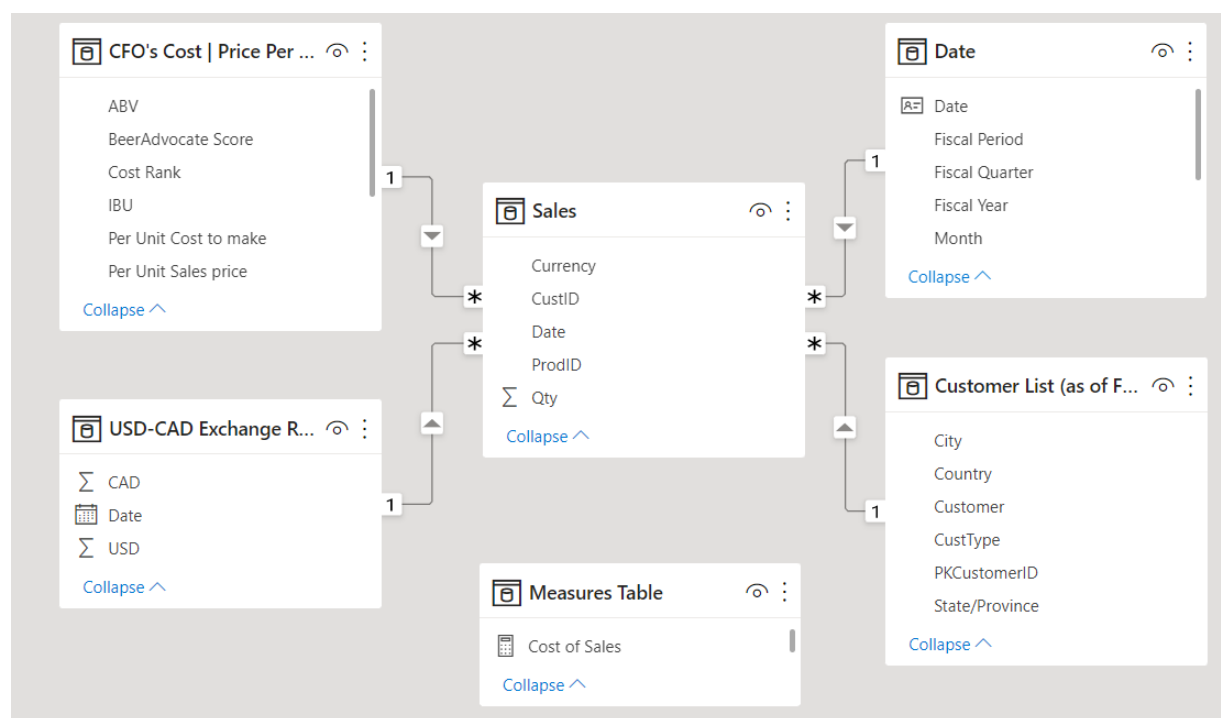
Build Relationships



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.

Table relationships are excellent 🙌

All dimension tables are connected to the fact table using a 1:many relationship. You further merged the product and CFO metrics table as optionally required. This optimizes your data model.



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.

Good Job. 🏆🏆

Your measures were calculated using DAX formulas and not hard coded.

Values are correctly labeled too

Calculated measures help in model efficiency, unlike calculated columns.

While calculated columns loads on each data refresh, measures don't.

- 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 (%) ✓

Further reading 📖

- [Understand the difference BETWEEN CALCULATED COLUMNS & MEASURES IN POWER BI](#)
- [Calculated Columns and Measures in DAX](#)



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%.

Well done 🙌👓👏

First Tab & Second Tab

Your card and matrix visuals are perfectly laid out. ❤️
Total sales in USD value are correct and formatted as currency. ❤️
You provided an intuitive executive summary ❤️
Your GPM values are correctly labeled and formatted. ❤️

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 [✓]

\$167.57K

Sales Total, USD

SSBC - Tab 1

\$224.21K

Sales Total, CAD

Quarter - FY	Q1-2021		Q2-2021		Q3-2021		Q4-2021		Total	
CustType	Sales(USD)	GPM(USD)	Sales(USD)	GPM(USD)	Sales(USD)	GPM(USD)	Sales(USD)	GPM(USD)	Sales(USD)	GPM(USD)
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%
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%
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%
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%
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%
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%
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:

While the highest sales by customer type is Distributor, the highest gross profit margins is SSBC Tasting Room. Among individual customers, the highest sale is Barrel's Best, while the highest gross profit margin is with The Black Bear.

RETURN TO PATH

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