

Welcome to the Second Half

CAP2791C: Power BI — Data Preparation and Modeling

Week 8 Session A | Everything you have done so far counts.

Today's Agenda



The New Map — your roadmap for Weeks 8-16

10 min



New Policies — late work, redo options, quiz changes

5 min



Meet Sabor Miami — your course dataset

8 min



Hands-On: Connect to the data in Power BI

15 min



Guided Profiling — find the problems hiding in the data

20 min

The Second Half: Weeks 8-16

WK 8

Reset + Sabor Miami

WK 9

Clean Your Data

WK 10

Transform & Reshape

WK 11

Combine Queries

WK 12

Build the Model

WK 13

DAX Fundamentals

WK 14

CALCULATE + Time

WK 15

Optimize + Assemble

WK 16

Portfolio + Celebrate

What Gets Graded

Assessment	Points	When	Format
Comprehension Checks (4)	40	Wk 8,10,12,14	Untimed, retakable, 3 attempts
Applied Labs (4)	200	Wk 9,11,13,15	Power BI tasks, redo available
Portfolio Project	150	Wk 16	Assembled .pbix + reflection
Participation	50	Ongoing	Attendance + engagement
TOTAL	440		

No midterm. No final exam. No timed quizzes. Your grade comes from what you BUILD.

New Policies — Effective Today

Late Work

48-hour grace period — no penalty
After 48 hours: 10% per day, max 30% off
A late submission always beats a zero

Redo Option

Score below "Good"? Revise and resubmit once
Earn up to the "Good" tier score
Available on all 4 graded labs

Quizzes

All comprehension checks are UNTIMED
3 attempts — highest score kept
Instant feedback on every question



Meet Sabor Miami

Your course dataset for the rest of the semester

Sabor Miami

A family-owned food truck company. 4 trucks across Miami-Dade County.
Latin-Caribbean fusion food at events, festivals, and lunch spots throughout 2024.

Cuban sandwiches at Calle Ocho. Empanadas at Art Basel. Jerk chicken bowls in Wynwood.

The Data Files

SaborMiami_Sales_2024.csv	500 transactions	Fact Table
SaborMiami_MenuItems.xlsx	25 menu items	Dimension
SaborMiami_Trucks.xlsx	4 trucks	Dimension
SaborMiami_Employees.xlsx	12 employees	Dimension
SaborMiami_Events_2024.csv	15 events	Dimension

Hands-On: Connect to Sabor Miami

DO THIS

1. Open Power BI Desktop
2. Home tab > Get Data (first button on the left)
3. Select Text/CSV > navigate to SaborMiami_Sales_2024.csv > Load
4. Get Data again > Excel Workbook > SaborMiami_MenuItems.xlsx > Load
5. Repeat for Trucks.xlsx and Employees.xlsx
6. Get Data > Text/CSV > SaborMiami_Events_2024.csv > Load
7. Save your file as SaborMiami_YourName.pbix

STOP AND CHECK: You should see 5 tables in the Fields pane (right side of your screen).

TAKE A BREATH

You just connected to the data you will work with
for the rest of this course.

Stretch. Look away from the screen. Get some water.
We shift gears in 2 minutes.

Guided Profiling: What Is Hiding in This Data?

Before you fix data, you have to find the problems.



Column Quality

Shows % Valid, % Error, % Empty
for every column



Column Distribution

Shows a bar chart of value frequencies per column



Column Profile

Shows detailed stats when you click on a column

How to turn them on: Home tab > Transform Data (opens Power Query Editor) > View tab > check all three boxes in the Data Preview section

Let's Profile the Sales Table Together

DO THIS — Follow Along

1. Click on the `SaborMiami_Sales_2024` query in the left pane
2. Look at the Column Quality bars — any columns with Empty or Error?
3. Click on the `Date` column — look at the values. See anything odd?

What You Should Find

Tip column: ~15% empty

Some transactions have no tip recorded

Date column: two different formats

MM/DD/YYYY and DD-MM-YYYY mixed together

Payment_Method: too many distinct values

"Cash", "CASH", and "cash" are being counted separately

Thursday: Your Turn — Data Quality Snapshot

Session 8B Preview

Data Quality Snapshot Lab

Profile all 5 Sabor Miami tables. Document every issue you find. Target: at least 10.

35 min

Gallery Walk (optional)

Share your findings with the class — or just listen.

10 min

Comprehension Check #1

5 questions on Weeks 1-7. Untimed. 3 attempts. No stress.

15 min

The lab is UNGRADED — it is practice. The comprehension check is graded (10 pts) but retakable.

Where This Fits

Get Data

PROFILE

Clean

Transform

Combine

Model

DAX

Optimize

Key Takeaways

- 1** The second half has a clear map: 9 weeks, 4 labs, 1 portfolio. You know exactly what is coming.
- 2** New policies are designed to support you: grace periods, redos, no timed quizzes.
- 3** Sabor Miami is YOUR data. Every problem you find is a problem you will learn to fix.

SAVE YOUR POWER BI FILE BEFORE CLOSING. You will need it Thursday.