SQL Saturday Atlanta 2025 - AI & BI (#1102)

08 March 2025

Unity Catalog Data Governance and much more!

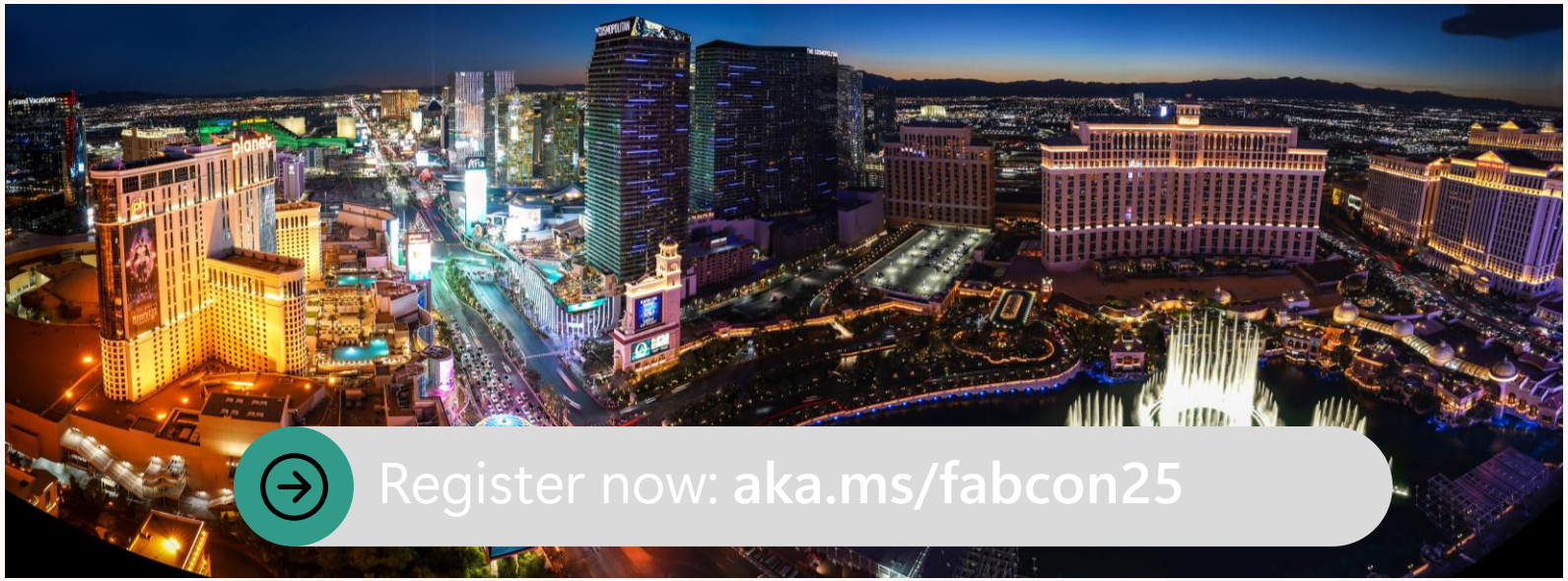
SPEAKER Christopher Small

Join us at the Fabric Community Conference

MGM GRAND, Las Vegas, NV

March 31 - April 2, 2025

Workshops: March 29, 30, and April 3



Join us at the second annual Microsoft Fabric Community Conference and get up close with the latest data, analytics, and AI developments—plus network with community leaders and other technical experts from around the world.

Use code FABINSIDER for a $400 discount*

*Discount must be redeemed by March

LUNCH ON SATURDAY

- 12:30 to 2:00.
- Closes promptly at 2:00.
- Only available for those who prepaid

SESSION EVALS

Please give session evaluations to the speaker in the room.

Thanks to our sponsors

Please visit our sponsors!

JOIN SPONSOR LUNCH SESSIONS

There will be **two $50 prizes** for each room.

You must arrive in the room in the **first 10 minutes** to get a raffle ticket for this drawing.

CLOSING CEREMONY

Please join us in the in the **auditorium** for the closing ceremony **right after the last session** of the day.

This is where sponsors will give **raffle prizes**.

INTRODUCTION TO POWER BI

By Christopher Small

SQLSATURDAY

Atlanta - AI & BI

March 8, 2025

AMD

Microsoft

improving

It's what we do. ™

CloudStaff

MORE. HUMAN.

KEY 2 Consulting

POWER BI SENTINEL

Governance · Auditing
Disaster Recovery

ROYAL BLUE ANALYTICS

CHRISTOPHER SMALL

- Computer Science Student at University of Tennessee at Chattanooga
- Microsoft Office Specialist (MOS) Excel and Advanced
- Instructor at JN Training and Global Knowledge
- Email: chris.small@jncomputertraining.com
- LinkedIn: https://www.linkedin.com/in/christopher-small-training
- GitHub: https://github.com/Chris-JN

TODAY WE WILL:

- Import Data
- Edit Data
- Relate Tables
- Create Visuals
- Publish to app.powerbi.com
- Create A Dashboard

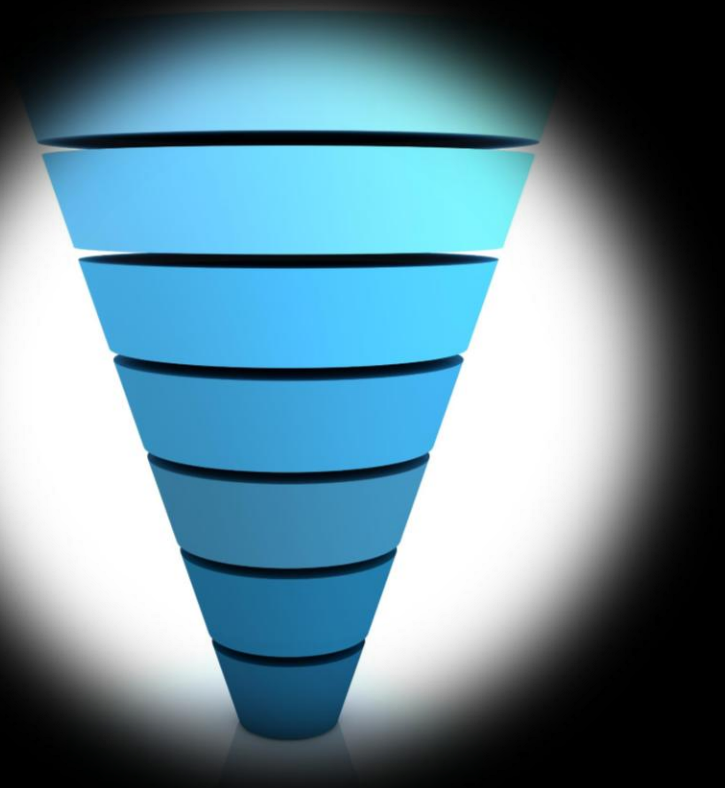
GITHUB LINK

- https://github.com/Chris-JN/Power-Hour

IMPORTING DATA

- Opening Power BI Desktop
  - Launch the Power BI Desktop application
- Getting Data from Text/CSV
  - Navigate to Home > Get Data > Text/CSV
- Importing Files
  - Import Orders.csv, Products.csv, and Customers.csv files into power query editor

EDITING DATA IN POWER QUERY EDITOR



- Purpose of Power Query
  - Used for cleaning and shaping data before modeling
- Opening Power Query Editor
  - Click Transform Data to access the editor
- Removing Unwanted Columns
  - Example: Remove Country from Customers.csv
- Changing Data Types
  - Example: Set OrderDate as Date
- Filtering Rows
  - Example: Show Orders with a Quantity Greater Than 2
- Applying Changes
  - Close and Apply changes

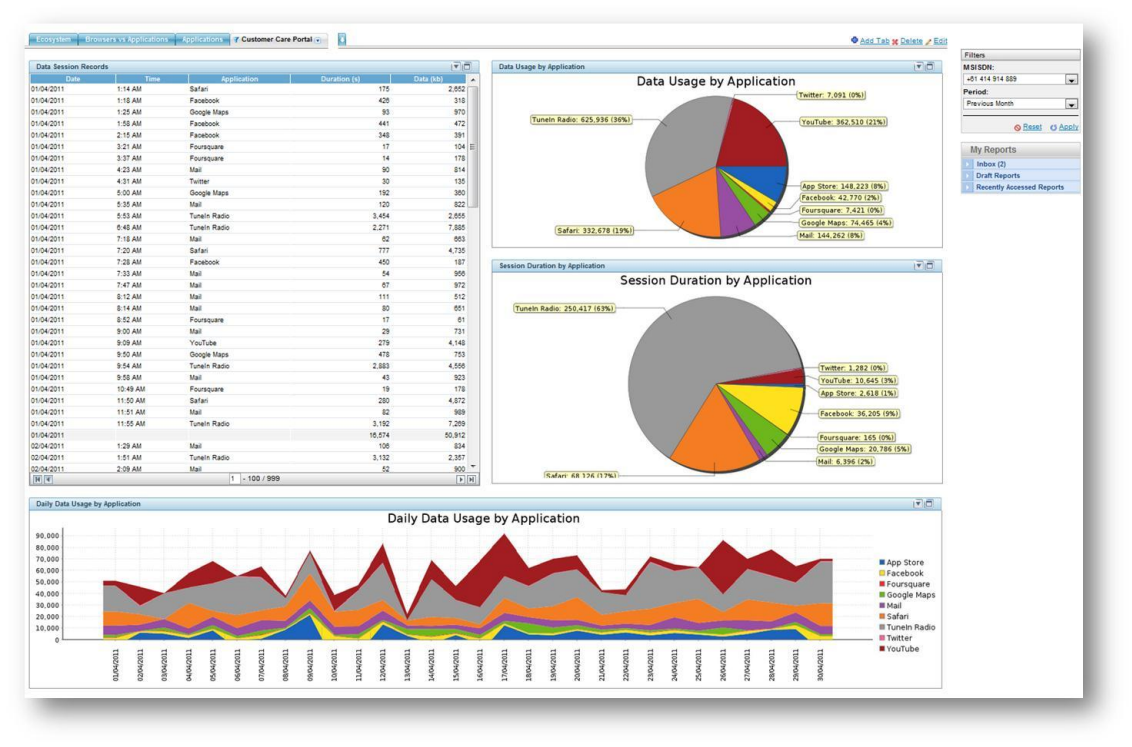
RELATING TABLES IN THE DATA MODEL

- Model View in Power BI
  - Navigate to the Model view
  - Drag CustomerID in Orders to CustomerID in Customers
  - Drag ProductID in Orders to ProductID in Products
  - Adjust cardinality and cross-filter direction if needed
- Explanation
  - Relationships link tables for accurate reporting
  - Highlight relationship lines visually

CREATING VISUALS

- Creating Visuals in Report View
  - Add a bar chart for TotalAmount by CustomerName
  - Add a pie chart showing Category distribution
  - Add a line chart for OrderDate vs. TotalAmount
  - Use slicers to filter by City or Category
- Importance of Choosing the Right Visual
  - Enhances data comprehension
  - Highlights key insights

BUILDING A DASHBOARD



This Photo by Unknown Author is licensed under CC BY-SA

- Save and publish report to Power BI Service
  - Click Publish > My Workspace
- Pin visuals to a dashboard
  - Open Power BI Service in a browser
  - Pin a bar chart and pie chart to create a dashboard
- Share the dashboard
  - Demonstrate Share > Copy Link for collaboration

RECAP THE STEPS

- Import Data
  - Gather data from various sources
- Clean and Transform in Power Query
  - Ensure data quality and consistency
- Relate Tables in the Data Model
  - Establish relationships between different data tables
- Create Visuals and Dashboards
  - Design interactive and informative visuals
- Make a dashboard in power bi services
  - Publish the report to your “my workspace” and pin visuals to crate a dashboard

Q&A

SQLSATURDAY

Atlanta - AI & BI

March 8, 2025

AMD

Microsoft

improving

It's what we do. ™

CloudStaff

MORE. HUMAN.

KEY 2 Consulting

POWER BI SENTINEL

Governance · Auditing
Disaster Recovery

ROYAL BLUE ANALYTICS

CHRISTOPHER SMALL

- Email: chris.small@jncomputertraining.com
- LinkedIn: https://www.linkedin.com/in/christopher-small-training
- GitHub: https://github.com/Chris-JN