AI-Assisted Power BI for Business Analytics

Figure 1: AI-Assisted Power BI for Business Analytics

Data Dictionary

Dataset Name: [Dataset Name] **Last Updated:** [Date] **Owner:** [Data Owner Name]

Overview

Brief description of the dataset and its purpose.

Example: This dataset contains cloud subscription sales transactions for the North American region, used for revenue reporting and sales performance analysis.

Tables

[Table Name]

Description: [What this table represents] **Record Count:** [Approximate rows] **Update Frequency:** [How often data refreshes]

Column Name	Data Type	Description	Example Values	Notes
[column_name]	Text	[What it represents]	"North", "South"	[Primary Key, etc.]
[column_name]	Whole Number	[What it represents]	1, 42, 100	
[column_name]	Decimal	[What it represents]	99.99, 1500.00	[Currency]
[column_name]	Date	[What it represents]	2024-01-15	[Format: YYYY-MM-DD]
[column_name]	Boolean	[What it represents]	TRUE, FALSE	

Relationships

How tables connect to each other.

```
[Table A]      [Table B]
                 (One-to-Many via KeyColumn)

               [Table C]
                 (One-to-Many via KeyColumn)
```

From Table	From Column	To Table	To Column	Relationship
[Table A]	[Column]	[Table B]	[Column]	One-to-Many

Business Rules

Important rules for interpreting the data.

Rule	Description
[Rule Name]	[e.g., Revenue = Quantity × Unit Price]
[Rule Name]	[e.g., Active Customer = Has purchase in last 12 months]

Data Quality Notes

Note	Description
Known Limitations	[e.g., Data before 2022 may be incomplete]
Null Handling	[e.g., Null region defaults to "Unassigned"]
Synthetic Data	This is synthetic data for training purposes

Copilot-Friendly Names

Recommended synonyms for natural language queries.

Technical Name	Friendly Name	Synonyms
[cust_id]	Customer ID	customer number, account
[txn_amt]	Transaction Amount	sale amount, revenue, price
[prod_cat]	Product Category	category, product type

Quick Reference

Item	Value
Total Tables	[Number]
Primary Date Field	[Table.Column]
Primary Amount Field	[Table.Column]
Recommended Filters	[List key filter columns]

Template Version 1.0 - For educational purposes