

Understanding Fact and Dimension Tables in Power BI

There exist two fundamental table types that form the backbone of your data model: Data tables, also known as Fact tables, and Lookup tables, or Dimension tables.

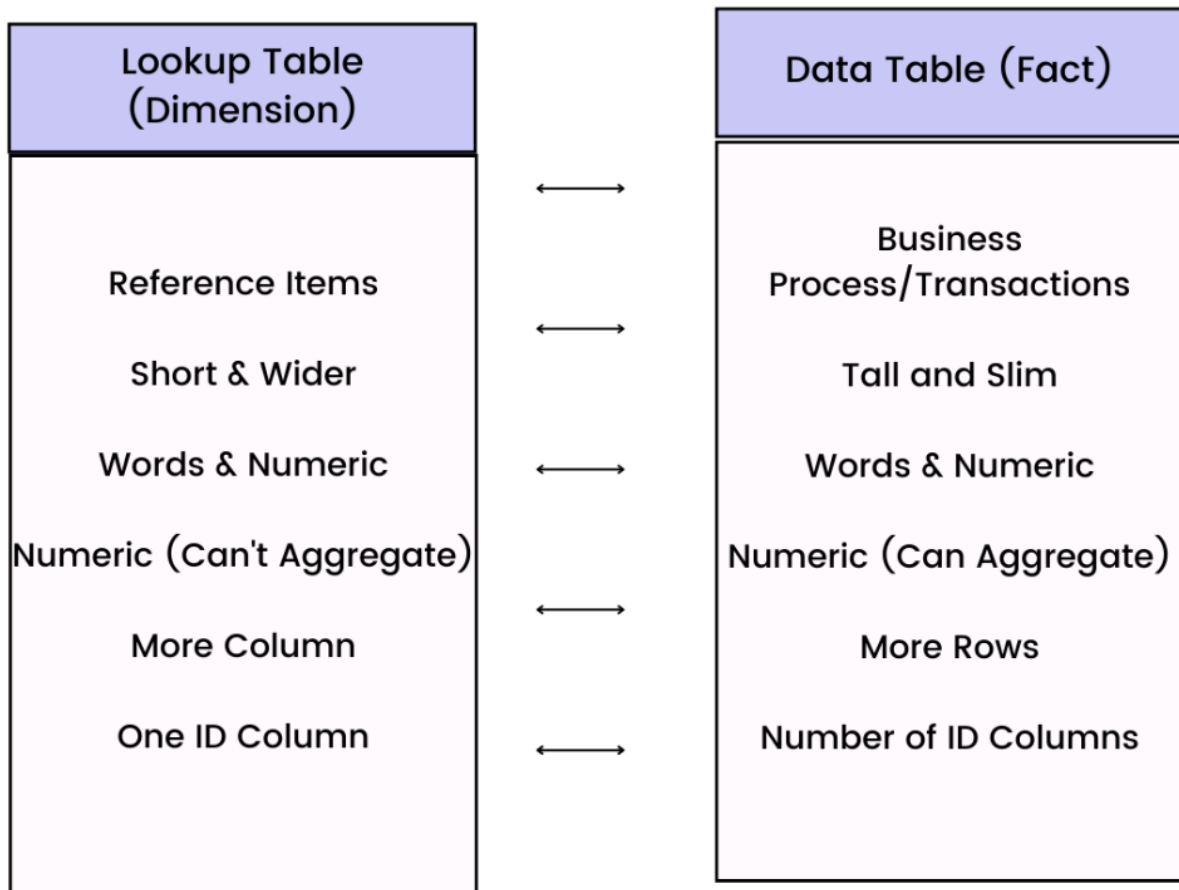
Data (Fact) Tables:-

Imagine these as the numerical heartbeat of your business. Data tables house the measurable values or metrics that drive your insights. Whether it's quantities, revenues, or pageviews, these tables store the raw, quantitative data that defines the performance and health of your business.

Lookup (Dimension) Tables:-

On the flip side, Lookup tables provide the colorful context to your numerical data. They hold descriptive attributes about each dimension in your model, such as customers, products, employees, and more. Think of them as the storytellers, adding depth and meaning to the numbers in your Data tables.

Data-Base Fundamentals

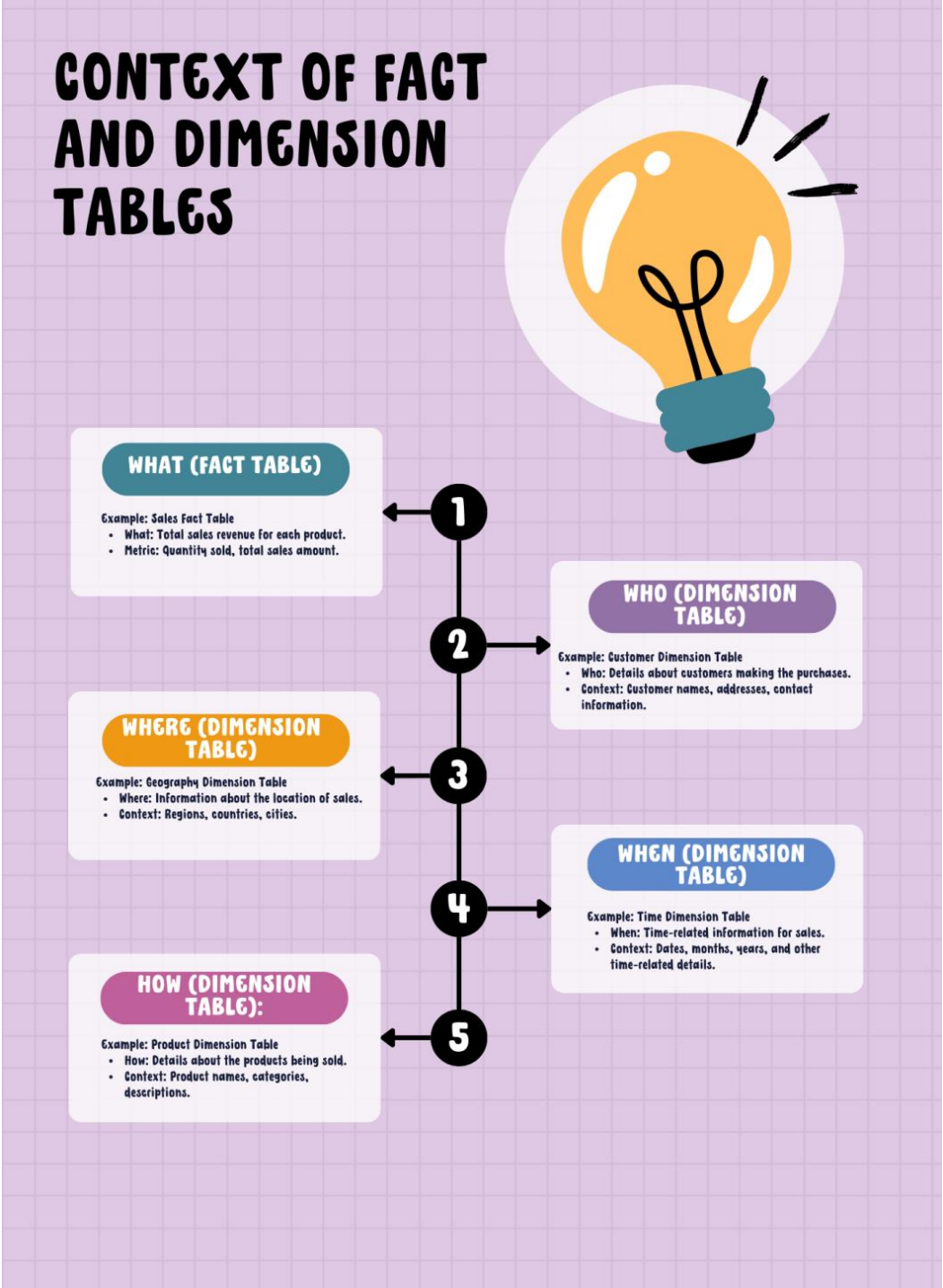


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Data-Base Fundamentals

Imagine you have two types of tables: one with detailed information like sales numbers (Fact table) and another with broader categories like regions (Dimension table). The cool part is when you create relationships between these tables. It's like connecting puzzle pieces – suddenly, you can effortlessly figure out how well your sales are doing in different areas. The relationships make it simple to analyze and understand what's happening in your business.

The key lies in recognizing the symbiotic relationship between these table types. Fact tables provide the **'what,'** answering questions about quantities and metrics, while Dimension tables offer the **'who,'** **'where,'** **'how,'** and **'when,'** adding context to your analyses.



Context of Fact and Dimension tables

Conclusion:

Fact tables provide the 'what,' answering questions about quantities and metrics, while Dimension tables offer the 'who,' 'where,' 'how,' and 'when,' adding context to your analyses.

In Power BI, understanding the difference between Fact and Dimension tables is like having a super useful tool. These tables team up to help you tackle any data challenge. So, as you work with your data in Power BI, know that these tables work well together, making your reports full of helpful insights. Enjoy modeling your data!

Source:

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