**Northwind Database Star Schema Diagram**

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MIS407 – Database Concepts

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February 21, 2021

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Figure 1 below is a star schema diagram for the Northwind Database showing fact and dimension tables.

**Figure 1**

*Northwind Database Star Schema Diagram*



A star schema is a “data modeling representation of multidimensional data cubes” with a fact table in the center that is linked to multiple dimension tables with one-to-many relationships (Mannino, 2019, p. 517). A star schema is the simplest type of data warehouse schema and is optimized to query large data sets (Guru99, n.d.). Star schemas are more denormalized that relational database schemas (Mateus Pires, 2020).

**Challenges**

My main challenge for this assignment was figuring out exactly how to denormalize the data that was provided in the entity-relationship diagram. I also took a decent amount of time looking at examples of star schemas online to decide what attributes to use for the four dimension entities.

**References**

Guru99. (n.d.). *Star and snowflake schema in data warehouse with examples*. https://www.guru99.com/star-snowflake-data-warehousing.html

Mannino, M. V. (2019). *Database design, application development, and administration* (7th ed.). Chicago, IL: Chicago Business Press.

Mateus Pires, D. (2020, January 31). *Building a modern batch data warehouse without updates*. Toward Data Science. https://towardsdatascience.com/building-a-modern-batch-data-warehouse-without-updates-7819bfa3c1ee