Power BI Data Model Documentation Report

1. Tables Used

Table Name	Description / Purpose
Order Table	Contains transactional sales data including order details, customer IDs, products, delivery days, profit, and discount information.
Customers	Holds customer information such as Customer ID, Customer Name, and Segment.
Product	Includes product metadata — Category, Sub-Category, Product Name, and Product ID.
Geography	Contains location-related data such as City, State, Region, Country, and Postal Code.
Shipping	Defines shipping methods and shipping-related attributes (e.g., Ship Mode).

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2. Relationships

Relationship	Type	Description
Order Table → Customers	Many-toOne	Linked by **Customer ID** — connects each order to its respective customer.
Order Table → Product	Many-toOne	Linked by **Product ID** — connects sales transactions to product details.
Order Table → Geography	Many-toOne	Linked by **Postal Code** — associates each order with its geographic location.
Order Table → Shipping	Many-toOne	Linked by **Ship Mode** — determines shipping method per order.

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3. Key Calculations / Measures

- **Total Sales** = SUM(Sales)
- **Total Profit** = SUM(Profit)
- Delivery Days = [Order Date] – [Delivered Date]
- **Customer Count** = DISTINCTCOUNT(Customer ID)

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4. Notes

- **Data Source:** Superstore dataset (cleaned version).
- **Transformations Applied:**
  - Removed duplicates and nulls. ○ Standardized date formats.
  - Merged customer and order tables based on Customer ID.
- **Assumptions:**
  - Each order belongs to one customer and one region. ○ Postal Code is used as the unique link for geographic data.

5. DIAGRAM