Prompt 1: To create a data table

- Create a date table that has the dates from 03-01-2025 (March 1st, 2025) to 05-31-2025 (May 31st, 2025).

Prompt 2: To create an exchange rate table

- Create an exchange_rate table for the period from March 1st, 2025, to May 17th, 2025.
- Use the following API request sample to fetch historical exchange rates:
- response = requests.get('https://openexchangerates.org/api/historical/2024-10-21.json?app_id =&symbols;=INR')
- Replace the date for each in the URL with each date within the specified range.

Prompt 3: Data cleaning and summarizing required data in one table (fact_summary)

- 1. Load data from:
- - fact_order_line table
- - dim_products sheet (skip first row, use second row as headers)
- - dim_customers sheet (skip first row, use second row as headers)
- - Exchange Rate sheet (skip first row, use second row as headers)
- 2. Clean the data:
- - Convert product_id and customer_id to numeric
- - Strip whitespace from IDs
- - Remove rows with NULL IDs
- - Convert IDs to integers
- - Convert dates to datetime
- 3. Merge the tables:
- - Orders with products using product_id
- - Result with customers using customer_id
- - Result with exchange rates using order_placement_date
- 4. Calculate total amounts:
- - For USD currency: price_USD * USD_INR_Rate * order_qty
- - For INR currency: price_INR * order_qty
- 5. Clean final output:
- - Drop intermediate columns: price_USD, price_INR, currency, Date, USD_INR_Rate
- - Keep only essential columns: order details, IDs, dates, quantities, delivery information, and total_amount (in INR)

Prompt 4: Creating Business KPIs

- Create the following KPIs:
- 1. Total Order Lines
- 2. Line Fill Rate
- 3. Volume Fill Rate
- 4. Total Orders
- 5. On Time Delivery %
- 6. In Full Delivery %
- 7. On Time In Full %

Prompt 5: Top Customers

- Show the top 5 customers based on order value and their OTIF %, IF %, OT %.
- Include customer name, customer ID, and city in the table.

Prompt 6: Top Customers (India)

- Show the top 5 customers in India based on order value and their OTIF %, IF %, OT %.

- Include customer name, customer ID, and city in the table.