**Prompt 1: To create a data table** Use this prompt: 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** Use this prompt: *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(f'https://openexchangerates.org/api/historical/2024-10-21.json?app\_id=<Replace with my app id here>&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)**

Use this prompt:

Create a Python code that:

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. Cleans the data:

- Convert product\_id and customer\_id to numeric

- Strip whitespace from IDs

- Remove rows with NULL IDs **Codebaiscs.io**

- Convert IDs to integers

- Convert dates to datetime

3. Merges the tables:

- Orders with products using product\_id

- Result with customers using customer\_id

- Result with exchange rates using order\_placement\_date

4. Calculates 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**

Use this Prompt:

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**

Use this Prompt:

Create the following KPIs

Show me top 5 customers based on order value and their OTIF %, IF %, OT %.

Also add the customer name, customer ID and city in the table