1. Delivery Performance

- On-Time Delivery Rate
 - Formula:

$$ext{On-Time Delivery Rate} = rac{ ext{Number of Orders Delivered On-Time}}{ ext{Total Number of Orders}} imes 100$$

- **Description:** Measures the percentage of orders delivered on time.
- Average Shipping Time
 - Formula:

Average Shipping Time =
$$\frac{\sum (\text{Days for shipping (real)})}{\text{Total Number of Orders}}$$

- Columns: Days for shipping (real)
- Description: Indicates the average shipping duration for orders.
- Shipping Accuracy
 - Formula:

$$ext{Shipping Accuracy} = rac{ ext{Number of Orders Shipped as Scheduled}}{ ext{Total Number of Orders}} imes 100$$

- Columns: Days for shipping (real), Days for shipment (scheduled)
- Description: Measures the percentage of orders shipped on or before the scheduled date.

2. Order Fulfillment

- Order Fulfillment Rate
 - Formula:

$$egin{aligned} ext{Order Fulfilled} & ext{Rate} = rac{ ext{Number of Orders Fulfilled}}{ ext{Total Number of Orders}} imes 100 \end{aligned}$$

- Columns: Order Status (e.g., "COMPLETE")
- **Description**: Indicates the percentage of orders successfully completed.

- Order Cycle Time
 - Formula:

 $Order\ Cycle\ Time = Order\ Fulfillment\ Date - Order\ Date$

- Columns: order date (DateOrders), Shipping date (DateOrders)
- Description: Measures the time it takes to fulfill an order, including processing and shipping.
- Backorder Rate
 - Formula:

$$Backorder~Rate = \frac{Number~of~Backordered~Items}{Total~Number~of~Ordered~Items} \times 100$$

- Columns: Product Status (1 indicates not available)
- Description: Indicates the percentage of orders delayed due to stockouts.
- Return Rate
 - Formula:

$$Return \ Rate = \frac{Number \ of \ Returned \ Orders}{Total \ Number \ of \ Orders} \times 100$$

- Columns: Order Status (status indicating returns)
- Description: Shows the percentage of orders returned, indicating customer satisfaction and product quality.

3. Financial Performance

- Profit Margin Per Order
 - Formula:

$$ext{Profit Margin Per Order} = rac{ ext{Order Profit Per Order}}{ ext{Sales}} imes 100$$

- Columns: Order Profit Per Order, Sales
- Description: Shows the profitability of each order.

- Customer Lifetime Value (CLV)
 - Formula:

$$\mathrm{CLV} = \sum (\mathrm{Sales\ per\ customer})$$

- Columns: Sales per customer
- Description: Represents the total value a customer contributes over their relationship with the company.
- Average Order Value (AOV)
 - Formula:

$$AOV = \frac{\sum (Order\ Item\ Total)}{Total\ Number\ of\ Orders}$$

- Columns: Order Item Total
- Description: Indicates the average revenue generated per order.
- Benefit Per Order
 - Formula:

$$\text{Benefit Per Order} = \frac{\sum (\text{Benefit per order})}{\text{Total Number of Orders}}$$

- Columns: Benefit per order
- Description: Represents the average profit earned per order, indicating financial efficiency.

4. Inventory Management

- Product Stock Availability Rate
 - Formula:

$$Product\ Stock\ Availability\ Rate = \frac{Number\ of\ Available\ Products}{Total\ Number\ of\ Products} \times 100$$

- Columns: Product Status
- · Description: Measures how often products are available in stock.