

Data Structure of the Generator

Sales Data

```
class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 11 columns):
#   Column          Non-Null Count  Dtype
---  ---
0   Order_Date      1000 non-null   datetime64[ns]
1   Shipment_Date   1000 non-null   datetime64[ns]
2   StoreID         1000 non-null   int64
3   StoreName       1000 non-null   object
4   Product_Type    1000 non-null   object
5   Unit_Price      1000 non-null   float64
6   Unit_Cost       1000 non-null   float64
7   Quantity        1000 non-null   int64
8   Revenue         1000 non-null   float64
9   Total_Cost      1000 non-null   float64
10  Total_Profit    1000 non-null   float64
dtypes: datetime64[ns](2), float64(5), int64(2), object(2)
```

Purchase Orders

```
class 'pandas.core.frame.DataFrame'>
Int64Index: 325 entries, 0 to 324
Data columns (total 7 columns):
#   Column          Non-Null Count  Dtype
---  ---
0   Vendor          325 non-null   object
1   Product         325 non-null   object
2   sum(Quantity)   325 non-null   float64
3   Year            325 non-null   int64
4   Quarter         325 non-null   int64
5   Purchase_Date   325 non-null   datetime64[ns]
6   Unit_Cost       325 non-null   float64
dtypes: datetime64[ns](1), float64(2), int64(2), object(2)
```

Inventory

```
class 'pandas.core.frame.DataFrame'>
RangeIndex: 1325 entries, 0 to 1324
Data columns (total 5 columns):
#   Column          Non-Null Count  Dtype
---  ---
0   Date            1325 non-null   datetime64[ns]
1   Product         1325 non-null   object
2   Quantity        1325 non-null   float64
3   Unit_Cost       1325 non-null   float64
4   Vendor          325 non-null   object
dtypes: datetime64[ns](1), float64(2), object(2)
```

COGS

```
class 'pandas.core.frame.DataFrame'>
RangeIndex: 325 entries, 0 to 324
Data columns (total 3 columns):
#   Column          Non-Null Count  Dtype
---  ---
0   Year            325 non-null   int64
1   Yr_Q            325 non-null   object
2   Product         325 non-null   object
3   Value           325 non-null   float64
dtypes: float64(1), object(2)
```

Data Structure of the Generator

Exp_df (Yearly Expenses)

```
class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 8 entries, 0 to 7
```

```
Data columns (total 12 columns):
```

#	Column	Non-Null Count	Dtype
0	Year	8 non-null	int64
1	Rev	8 non-null	float64
2	COGS	8 non-null	float64
3	Gross_Profit	8 non-null	float64
4	Rent	8 non-null	float64
5	Insurance	8 non-null	float64
6	Wages	8 non-null	float64
7	Ads	8 non-null	float64
8	Net_Profit	8 non-null	float64
9	EBIT	8 non-null	float64
10	Taxes	8 non-null	float64
11	Net_Income	8 non-null	float64

```
dtypes: float64(11), int64(1)
```