**df = pd.read\_csv**

This line reads a CSV file containing sales data into a Pandas DataFrame df.

**df = df[(df != 0).all(axis=1)]:** This line removes rows from the DataFrame df where any column contains a zero value

If any value in a row is zero, that row is excluded from df.

**df.groupby(['product\_id', 'sales\_week of year'])**: This part groups the DataFrame df by two columns: product\_id and sales\_week of year. It means that the data will be organized into groups where each unique combination of product\_id and sales\_week of year forms a group.

**['sales\_product\_quantity'].mean()**: Within each group, it selects the sales\_product\_quantity column and calculates the mean (average) value of this column. So, for each group defined by product\_id and sales\_week of year, it computes the average sales quantity.

**.reset\_index():** After computing the mean, this method resets the index of the resulting DataFrame. This is typically done to convert the group labels (product\_id and sales\_week of year) from indices back into columns.

**avg\_sales['sales\_product\_quantity']**: This selects the column sales\_product\_quantity from the avg\_sales DataFrame.

**.astype(float):** This method converts the data type of the selected column to float.

**avg\_sales.columns**: This property accesses the column names of the avg\_sales DataFrame.