importing required libraries

In [ ]:
```
import pandas as pd
from pathlib import Path
import glob
```

get source data folder

In [ ]:
```
folder_path = Path(r'C:\Users\sular\OneDrive\1.Data Analysis & Engineering\Data Engineering\Data Engineering Projects\Append-csvs-to-one-csv-f
folder_path
```

Out[ ]:
```
WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering Projects/Append-csvs-to-one-csv-file/dat
a/1.raw-bronze')
```

use glob & rglob modules to fetch all .csv files in folder(s) and subfolder(s)

In [ ]:
```
#rglob is a handy function to fetch all files end with .csv
folder_path.rglob("*.csv")

all_files = list(folder_path.rglob("*.csv"))
#all_files
len(all_files)
```

Out[ ]:
```
102
```

In [ ]:
```
all_files
```

Out[ ]:
```
[WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering Projects/Append-csvs-to-one-csv-file/da
ta/1.raw-bronze/2015/Customer_Orders_Extract_01_01_2015_31_01_2015.csv'),
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ta/1.raw-bronze/2023/Customer_Orders_Extract_01_03_2023_31_03_2023.csv'),
 WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering Projects/Append-csvs-to-one-csv-file/da
ta/1.raw-bronze/2023/Customer_Orders_Extract_01_04_2023_30_04_2023.csv'),
 WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering Projects/Append-csvs-to-one-csv-file/da
ta/1.raw-bronze/2023/Customer_Orders_Extract_01_05_2023_31_05_2023.csv'),
 WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering Projects/Append-csvs-to-one-csv-file/da
ta/1.raw-bronze/2023/Customer_Orders_Extract_01_06_2023_30_06_2023.csv')]
```

In [ ]:

```
# create empty list
full_df = []

# iterate through each file
for file in all_files:
    # Read each csv file into a dataframe
    df = pd.read_csv(file, usecols=['Customer Id','Account Name','Account Contact Email','Street','Suburb','City','Order No','Delivery Date','

    # Renaming columns using a dictionary
    new_cols_dict = {
    'Customer Id':'Customer_Id',
    'Account Name':'Customer_Name',
    'Account Contact Email':'Customer_Email',
    'Street':'Street_Address',
    'Suburb':'Suburb',
    'City':'City',
    'Order No':'Order_Number',
    'Delivery Date':'Delivery_Date',
    'Status Type':'Order_Status',
    'Units':'Units',
```

```
    'Sku':'Product_Id',
    'Product Title ':'Product_Name',
    'Ordered':'Quantity_Ordered',
    'Packed':'Quantity_Delivered',
    'Buy Price':'Price',
    'Truck No':'Delivery_Run',
    'Driver Returned':'Return_Quantity',
    'Temperature':'Chilled_Temp',
    'Frozen Temperature':'Frozen_Temp',
    'Product Type':'Product_Category'}
    df_renamed = df.rename(new_cols_dict, axis='columns')

    # Append each dataframe into the list - full_df[]
    full_df.append(df_renamed)
```

Concatenanting all data frames in the list into one

In [ ]:
```
#Concatenanting all data frames to one df using pd.concat()
finaldf = pd.concat(full_df, ignore_index=True)
finaldf.shape
```

Out[ ]:
```
(2821366, 20)
```

In [ ]:
```
finaldf.dtypes
```

Out[ ]:
```
Customer_Id             int64
Customer_Name          object
Customer_Email         object
Street_Address         object
Suburb                 object
City                   object
Order_Number            int64
Delivery_Date          object
Order_Status           object
Units                 float64
Product_Id             object
Product_Name           object
Quantity_Ordered      float64
Quantity_Delivered    float64
Price                 float64
Delivery_Run          float64
Return_Quantity       float64
Chilled_Temp          float64
Frozen_Temp           float64
Product_Category       object
dtype: object
```

Exporting full dataframe to .csv file

In [ ]:
```
# Exporting finaldf to a csv file
folder_path = Path(r'C:\Users\sular\OneDrive\1.Data Analysis & Engineering\Data Engineering\Data Engineering Projects\Append-csvs-to-one-csv-f
folder_path
```

Out[ ]:
```
WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering Projects/Append-csvs-to-one-csv-file/dat
a/2.processed-silver')
```

In [ ]:
```
file_path = folder_path / "Master_Sales_File.csv"
```

In [ ]:
```
finaldf.to_csv(file_path, index=False)
```