| | 1. Import necessary libraries for sales I | ta Data Analys | sis | | | | | |
|---|--|--|--|--|---|--|----------------------------|---------------|
| | import pandas as pdimport os2.Concatenate each month sale Data (the dataframe to annual_sale.csv | (https://githu | ıb.com/sv | karthik86/Assignment/tree/m | nain/Sale | s_Data) into c | ne dataframe a | and save |
| [4]: | os.listdir('C:\\Users\\user\Sales_Data') ['annual_sale.csv', 'Sales_April_2019.csv', 'Sales_August_2019.csv', 'Sales_December_2019.csv', 'Sales_February_2019.csv', 'Sales_January_2019.csv', 'Sales_July_2019.csv', 'Sales_June_2019.csv', 'Sales_March_2019.csv', 'Sales_May_2019.csv', 'Sales_May_2019.csv', 'Sales_November_2019.csv', | | | | | | | |
| | <pre>'Sales_October_2019.csv', 'Sales_September_2019.csv'] path=r"C:\Users\user\Sales_Data\\" files=[s for s in os.listdir('C:\\Users\\use sales_data=pd.DataFrame()</pre> | er\Sales_Data' |)] | | | | | |
| | <pre>for s in files: annual_sale=pd.read_csv(path+s) annual_sale=pd.concat([sales_data,annual annual_sale.to_csv("annual_sale.csv",ind annual_sale</pre> | | | | | | | |
| [24]: _ | Order ID Product Quantity Ordered 0 248151 AA Batteries (4-pack) 4 1 248152 USB-C Charging Cable 2 2 248153 USB-C Charging Cable 1 | 3.84 09 <i>i</i> 2 11.95 09 <i>i</i> | Order Date /17/19 14:44 /29/19 10:19 /16/19 17:48 | Purchase Address 380 North St, Los Angeles, CA 90001 511 8th St, Austin, TX 73301 151 Johnson St, Los Angeles, CA 90001 | | | | |
| | 3 248154 27in FHD Monitor 1 4 248155 USB-C Charging Cable 1 | | /01/19 19:03 /17/19 20:56 | 355 Hickory St, Seattle, WA 98101 125 5th St, Atlanta, GA 30301 840 Highland St, Los Angeles, CA 90001 | | | | |
| | 11682 259354 iPhone 1 11683 259355 iPhone 1 11684 259356 34in Ultrawide Monitor 1 11685 259357 USB-C Charging Cable 1 | 700 09 <i>i</i> 1 379.99 09 <i>i</i> | /23/19 07:39 /19/19 17:30 | 16 Dogwood St, San Francisco, CA 94016 220 12th St, San Francisco, CA 94016 511 Forest St, San Francisco, CA 94016 250 Meadow St, San Francisco, CA 94016 | | | | |
| ; | 11686 rows × 6 columns 3.Read the annual_sale.csv fom currer dataframe | nt working d | lirectory a | nd store it as annual_sale da | ataframe | , and display | the first five rov | w of the |
| [25]: | annual_sale.head(5) Order ID Product Quantity Ordered Pri 0 248151 AA Batteries (4-pack) 4 | ice Each Orde | er Date 9 14:44 380 | Purchase Address North St, Los Angeles, CA 90001 | | | | |
| : | 1 248152 USB-C Charging Cable 2 2 248153 USB-C Charging Cable 1 3 248154 27in FHD Monitor 1 4 248155 USB-C Charging Cable 1 | 11.95 09/29/19 11.95 09/16/19 149.99 09/27/19 11.95 09/01/19 | 9 17:48 151 Jo | 511 8th St, Austin, TX 73301 chnson St, Los Angeles, CA 90001 355 Hickory St, Seattle, WA 98101 125 5th St, Atlanta, GA 30301 | | | | |
| [26]: | 4.show the metadata information of the print(annual_sale.info()) annual_sale.isna().sum().sum() | e annual_sa | lle data fra | ame and check if data is mis | sing or n | ot, if yes How | many data are | missing. |
| | <pre><class 'pandas.core.frame.dataframe'=""> RangeIndex: 11686 entries, 0 to 11685 Data columns (total 6 columns): # Column Non-Null Count Dtype</class></pre> | | | | | | | |
| | 1 Product 11646 non-null objec 2 Quantity Ordered 11646 non-null objec 3 Price Each 11646 non-null objec 4 Order Date 11646 non-null objec 5 Purchase Address 11646 non-null objec dtypes: object(6) memory usage: 547.9+ KB | t t t | | | | | | |
| [26]: | None 240 5.Clean up the data! | | | | | | | |
| [28]: | 5.1 Verify all the column names are in a example: Product ID as Product_ID annual_sale.columns=[i.replace(" ","_") for annual_sale | | | | ame the | n rename the | column names | |
| [28]: | Order_ID Product Quantity_Ordere 0 248151 AA Batteries (4-pack) 1 248152 USB-C Charging Cable | 4 3.84 0 2 11.95 0 | Order_Date 09/17/19 14:44 09/29/19 10:19 | Purchase_Address 380 North St, Los Angeles, CA 90001 511 8th St, Austin, TX 73301 | | | | |
| | 3 248154 27in FHD Monitor 4 248155 USB-C Charging Cable | 1 149.99 0 1 11.95 0 | 09/16/19 17:48 09/27/19 07:52 09/01/19 19:03 | 151 Johnson St, Los Angeles, CA 90001 355 Hickory St, Seattle, WA 98101 125 5th St, Atlanta, GA 30301 | | | | |
| | 11682 259354 iPhone 11683 259355 iPhone | 1 700 C | 09/17/19 20:56 09/01/19 16:00 09/23/19 07:39 09/19/19 17:30 | 840 Highland St, Los Angeles, CA 90001 216 Dogwood St, San Francisco, CA 94016 220 12th St, San Francisco, CA 94016 511 Forest St, San Francisco, CA 94016 | | | | |
| 1 | 11685 259357 USB-C Charging Cable11686 rows × 6 columns5.2 check the isnan is present in datafr | | 99/30/19 00:18 e is nan is | 250 Meadow St, San Francisco, CA 94016 S present remove the nan us | ina dron | na() function | | |
| | annual_sale.dropna(inplace=True) Order_ID | ed Price_Each | Order_Date | Purchase_Address 380 North St, Los Angeles, CA 90001 | Jarup | ,ouUII | | |
| | 248152 USB-C Charging Cable 248153 USB-C Charging Cable 248154 27in FHD Monitor | 2 11.95 0 1 11.95 0 1 149.99 0 | 09/29/19 10:19 09/29/19 10:19 09/16/19 17:48 09/27/19 07:52 09/01/19 19:03 | 511 8th St, Austin, TX 73301 151 Johnson St, Los Angeles, CA 90001 355 Hickory St, Seattle, WA 98101 125 5th St, Atlanta, GA 30301 | | | | |
| | | 3 2.99 0 1 700 0 | 09/17/19 20:56 | 125 Stn St, Atlanta, GA 30301 840 Highland St, Los Angeles, CA 90001 216 Dogwood St, San Francisco, CA 94016 220 12th St, San Francisco, CA 94016 | | | | |
| | 11684 259356 34in Ultrawide Monitor | 1 379.99 0 | 09/23/19 07:39 09/19/19 17:30 09/30/19 00:18 | 220 12th St, San Francisco, CA 94016 511 Forest St, San Francisco, CA 94016 250 Meadow St, San Francisco, CA 94016 | | | | |
| [33]: | 5.3 Find The duplicated data present in annual_sale=annual_sale[~(annual_sale.Price_annual_sale | | | remove the duplicated data | from the | dataframe | | |
| [33]: | Order_ID Product Quantity_Ordere 0 248151 AA Batteries (4-pack) 1 248152 USB-C Charging Cable | 4 3.84 C 2 11.95 C | Order_Date 09/17/19 14:44 09/29/19 10:19 09/16/19 17:48 | Purchase_Address 380 North St, Los Angeles, CA 90001 511 8th St, Austin, TX 73301 151 Johnson St, Los Angeles, CA 90001 | | | | |
| | 3 248154 27in FHD Monitor 4 248155 USB-C Charging Cable | 1 149.99 0 1 11.95 0 | 09/16/19 17:48 09/27/19 07:52 09/01/19 19:03 | 355 Hickory St, Seattle, WA 98101 125 5th St, Atlanta, GA 30301 | | | | |
| | 11682 259354 iPhone 11683 259355 iPhone 11684 259356 34in Ultrawide Monitor | 1 700 0 1 700 0 1 379.99 0 | 09/23/19 07:39 | 840 Highland St, Los Angeles, CA 90001 216 Dogwood St, San Francisco, CA 94016 220 12th St, San Francisco, CA 94016 511 Forest St, San Francisco, CA 94016 | | | | |
| 1 [34]: | 11629 rows × 6 columns annual_sale.drop_duplicates(inplace=True) | 1 11.95 0 | 09/30/19 00:18 | 250 Meadow St, San Francisco, CA 94016 | | | | |
| (| <pre>annual_sale C:\Users\user\AppData\Local\Temp\ipykernel_1 A value is trying to be set on a copy of a s See the caveats in the documentation: https: annual_sale.drop_duplicates(inplace=True)</pre> | slice from a D | ataFrame | | ng.html#re | turning-a-view-v | ersus-a-copy | |
| [34]: _ | Order_ID Product Quantity_Ordere 0 248151 AA Batteries (4-pack) 1 248152 USB-C Charging Cable | 4 3.84 C 2 11.95 C | Order_Date 09/17/19 14:44 09/29/19 10:19 09/16/19 17:48 | Purchase_Address 380 North St, Los Angeles, CA 90001 511 8th St, Austin, TX 73301 151 Johnson St, Los Angeles, CA 90001 | | | | |
| | 3 248154 27in FHD Monitor 4 248155 USB-C Charging Cable | 1 149.99 0 1 11.95 0 | 09/27/19 07:52 09/01/19 19:03 09/17/19 20:56 | 355 Hickory St, Seattle, WA 98101 125 5th St, Atlanta, GA 30301 840 Highland St, Los Angeles, CA 90001 | | | | |
| | 11682 259354 iPhone 11683 259355 iPhone | 1 700 C | | 216 Dogwood St, San Francisco, CA 94016 220 12th St, San Francisco, CA 94016 | | | | |
| ! | | | | 511 Forest St, San Francisco, CA 94016 | | | | |
| | 11611 rows × 6 columns | | | 250 Meadow St, San Francisco, CA 94016 | | | | |
| [35]: [35]: | 6.memory_usage check memory_usage of Product column, type how much percentage effectively reduce the st annual_sale.Product.memory_usage() 185776 annual_sale.Product=annual_sale.Product.asty | e cast the Protorage space? | 09/30/19 00:18 duct columr | 250 Meadow St, San Francisco, CA 94016 | ck memmo | ry_usage compa | re the memory uti | alization and |
| [35]: [35]: [36]: | 6.memory_usage check memory_usage of Product column, type how much percentage effectively reduce the st annual_sale.Product.memory_usage() 185776 annual_sale.Product=annual_sale.Product.asty annual_sale.Product.memory_usage() C:\Users\user\AppData\Local\Temp\ipykernel_1 A value is trying to be set on a copy of a s Try using .loc[row_indexer,col_indexer] = va See the caveats in the documentation: https: | e cast the Protorage space? "pe("category" "580\136997309 slice from a Dalue instead //pandas.pyda | duct column 9.py:1: Set ataFrame. ta.org/pand | 250 Meadow St, San Francisco, CA 94016 n as "category" type and then chec | | | | alization and |
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| [35]: [35]: [35]: [36]: | C:\Users\user\AppData\Local\Temp\ipykernel_1 Add month column to annual_sale.Product.as annual_sale["month"] annual_sale["month"] annual_sale["row_indexer,col_indexer] = value is trying to be set on a copy of a s Try using .loc[row_indexer,col_indexer] = value is trying to be set on a copy of a s Try using .loc[row_indexer,col_indexer] = value is annual_sale.Product.as C:\Users\user\AppData\Local\Temp\ipykernel_1 Add month column to annual_sale.Product.as annual_sale["month"] annual_sale["month"] annual_sale["month"] = annual_sale.Order_Date.annual_sale C:\Users\user\AppData\Local\Temp\ipykernel_1 A value is trying to be set on a copy of a s Try using .loc[row_indexer,col_indexer] = value is trying to be set on a copy of a s Try using .loc[row_indexer,col_indexer] = value is trying to be set on a copy of a s | e cast the Proctorage space? "pe("category" 580\136997309 clice from a Dalue instead //pandas.pyda stype("category" astr[:2] 580\299404792 clice from a Dalue instead | duct column 9.py:1: Set ataFrame. ta.org/pand y") ect from '(| as "category" type and then check tingWithCopyWarning: as-docs/stable/user_guide/indexi Drder Date' column using Se | ng.html#re | turning-a-view-v | ersus-a-copy | alization and |
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| [35]: [35]: [35]: [36]: | check memory_usage check memory_usage of Product column, type how much percentage effectively reduce the st annual_sale.Product.memory_usage() 185776 annual_sale.Product=annual_sale.Product.asty annual_sale.Product.memory_usage() C:\Users\user\AppData\Local\Temp\ipykernel_1 A value is trying to be set on a copy of a s Try using .loc[row_indexer,col_indexer] = va See the caveats in the documentation: https: annual_sale.Product=annual_sale.Product.as 105207 7.Create and add a new column Add month column to annual_sale Data annual_sale['month'] annual_sale['month']=annual_sale.Order_Date. annual_sale C:\Users\user\AppData\Local\Temp\ipykernel_1 A value is trying to be set on a copy of a s Try using .loc[row_indexer,col_indexer] = va See the caveats in the documentation: https: annual_sale['month']=annual_sale.Order_Dat Order_ID | e cast the Proceed to rage space? Type("category" 580\136997309 Slice from a Delue instead Typandas.pyda type("category" 580\299404792 Slice from a Delue instead Typandas.pyda type("category" 1 | duct column 9.py:1: Set ataFrame. ta.org/pand y") ect from '(6.py:1: Set ataFrame. ta.org/pand y") | as "category" type and then check tingWithCopyWarning: as-docs/stable/user_guide/indexi Drder Date' column using Se tingWithCopyWarning: as-docs/stable/user_guide/indexi Purchase_Address in 380 North St, Los Angeles, CA 90001 | ng.html#re | turning-a-view-view-view-view-view-view-view-view | ersus-a-copy | alization and |
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