Fontanilla, Jairus VIncent L. CPE22S3

Code:

```
Assignment_DataCleaning.py X
VsCode > Python > 🏺 Assignment_DataCleaning.py > ...
        import pandas as pd
        df = pd.read_csv(r"D:\VsCode\Python\VSFs.csv")
        df.isnull().sum()
        df.dropna(inplace=True)
        df = df.drop duplicates()
        df['EFFECTIVE_DATE'] = pd.to_datetime(df['EFFECTIVE_DATE'], errors='coerce')
       df = df[~((df['EFFECTIVE_DATE'] == '11/01/2023 0:00') & (df['EFFECTIVE_DATE'].dt.strftime('%p') != 'AM'))]
df['CUSTOMER_NAME'] = df['CUSTOMER_NAME'].str.upper()
        df = df.drop(columns="CANCEL EFF DATE")
        df = df.drop(columns="VEH_COUNT")
        df = df.drop(columns="COVERAGE AMOUNT")
        df = df.dropna(subset=['EFFECTIVE_DATE'])
        df['EFFECTIVE_DATE'] = df['EFFECTIVE_DATE'].fillna('')
        df["customer_dba_name"] = df["customer_dba_name"].str.replace('Nan', '')
df["customer_dba_name"] = df["customer_dba_name"].str.replace('Na', '')
df["mail_addr_line2"] = df["Mail_addr_line2"].str.replace('Nan', '')
        df["MAIL_ADDR_LINE2"] = df["MAIL_ADDR_LINE2"].str.replace('Na',
        for x in df.index:
                                 if df.loc[x, "CUSTOMER_DBA_NAME"] == "":
                                      df.drop(x, inplace=True)
 22 print(df)
```

Dataset:

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CUSTOM PHONE MAIL AE MAIL AE MAIL CII MAIL

I. Nam 832-728 5523 BC Nam HOUSTC TX

Nam 244-797 : STE 100 - 25 HIGHI DALLAS TX

Nam 940-435 2827 VH Nam CORSSA TX

Nam 251-552-4603 Nam CORSSA TX

Nam 251-552-4603 Nam CORSSA TX

Nam 956-272 710 ELIN Nam WESLAG TX

Nam 956-272 710 ELIN Nam WESLAG TX

MEDINA' 375-478-11708 BC Nam

NOUNDS 512-218-PO BOX Nam

NOUNDS 512-218-PO BOX Nam

NOUNDS 512-254 9111AL TN Nam FERPELL TX

Nam 409-373 2295 HIC Nam

SLISBEE TX

Nam 409-373 2295 HIC Nam

Nam 956-325 2295 HIC Nam

Nam 958-325 2295 HIC Nam

NAM 1444 6231 VF Nam

NAM 1454 34 901 S WIL NAM

NAM 1454 34 91 S WIL NAM

NAM 1454 34 S WIL NAM

CERTIFIC TICENS CUSTOMER_NAME

O660756* Vehicle S BRAZOS COUNTY TOWING AND RECOVERY, LL Nam

O660758* Vehicle S DALLAS VEHICLE STORAGE LLC

Nam

O660057 Vehicle S FLEX SERVICES OF NITXLLC

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O660677 Vehicle S GS NOUSTRIAL HOLDINGS, LLC

GULF

O660777 Vehicle S GS NOUSTRIAL HOLDINGS, LLC

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O660772 Vehicle S INTERSTATE TOWING LLC

Nam

O660722 Vehicle S JURAM PEDINA

MEDIN

O6550724 Vehicle S JURAM PEDINA

O6550724 Vehicle S 1010 TOWING AND TRANSPORT LLC

O650737 Vehicle S 1ST CHOICE TOWING S RECOVERY LLC

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O652737 Vehicle S 1ST CHOICE VERCKER SERVICE

O650737 Vehicle S 1ST CHOICE WERCKER SERVICE

O650737 Vehicle S 1ST CHOICE WERCKER SERVICE

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O652737 Vehicle S 1ST CHOICE WERCKER SERVICE LLC

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O654375 Vehicle S 1ST CHOICE WERCKER SERVICE LLC

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O654387 Vehicle S 1ST CHOICE WERCKER SERVICE LLC

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0585702 Vehiole 2 24 HOUR WEEKER SERVICE, INC 
0585702 Vehiole 2 2447 TOWING, LLC 
06859323 Vehiole 2 2447 TOWING, LLC 
06859321 Vehiole 2 2447 TOWING, LCC 
06854279 Vehiole 2 2447 TOWINGANDPECOVERYLLC 
06864779 Vehiole 2 247 VERTURES LLC 
0686837 Vehiole 2 271 VERTURES LLC 
0686837 Vehiole 2 290 WEEKER SERVICE INC 
06877172 Vehiole 2 30 ACES WEEKER SERVICE, LLC 
06877172 Vehiole 3 3 ACES WEEKER SERVICE, LLC 
068771373 Vehiole 3 3 ACES WEEKER SERVICE, LLC 
06877313 Vehiole 3 3 ACES WEEKER SERVICE, LLC 
06877315 Vehiole 3 3 ACES WEEKER SERVICE, LLC 
06879385 Vehiole 3 3 BROTHERS SUTTERPRISES LLC 
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  0653897 Vehicle Storage Facilities
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0650523 Vehiole 3 985 TOWING 8 RECOVERY
06608181 Vehiole 3 91 TOWING LLC
0650258 Vehiole 3 91 TOWING LLC
0650258 Vehiole 3 91 TOWING LLC
0600259 Vehiole 3 4.1 AMB PIT PRIES, INC
0600249 Vehiole 3 4.4 SENTERPRIES, INC
0600250 Vehiole 3 4.4 SENTERPRIES, INC
0605250 Vehiole 3 4.4 SENTERPRIES, INC
0605554 Vehiole 5 34M STORAGE 8 RECOVERY INC
0650554 Vehiole 5 51ST STREET TOWING
0650023 Vehiole 6 600 LAKESIDE TOWING LLC
0660765 Vehiole 6 87 TOWING 8 SERVICES, LLC
0660765 Vehiole 6 915 TOWING 8 SERVICES, LLC
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  0680765 Vehicle 5 87 TOWING 3 SERVICES, LLC
0654958 Vehicle 5 935 TOWING 8 AND PECCOVERY, LLC
0640957 Vehicle 5 935 TOWING 8 RECOVERY
0000031 Vehicle 5 48 8 AUTO 8 VRECKER SERVICE
0543186 Vehicle 5 48 8 A TOWING AND PECCOVERY LLC
0653380 Vehicle 5 4 8 A TOWING AND PECCOVERY LLC
0653350 Vehicle 5 4 8 A TOWING AND PECCOVERY LLC
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MESQUIT DALLAS TX
EAGLEL COLORA TX
SEALY COLORA TX
    0568645 Vehicle S A & A WRECKER AND RECOVERY L.L.C.
0655383VSF A & E TOWS LLC
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  0515235' Vehicle S A & L DELGADO'S CORPORATION
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Output:

```
PS D. Vedocale > python - u "d: VSCOde > python - u "d
```

Conclusion: Data Cleaning is confusing since it is up to the user for what the output would be especially if the data set from user inputs which a lot of problems could occur. But Data cleaning is important since it simplifies the output to be easily usable.