Import Modules

```
In [6]: # Import modules
import easygui
import numpy as np
import pandas as pd
import re
import threading
import time
import xlwings as xw
import unidecode

from thefuzz import fuzz
from openpyxl.utils import column_index_from_string
from openpyxl.utils import get_column_letter
from pathlib import Path
from files import FindFiles
from transfer import ImportData, ExportData
```

```
In [2]: # Search for files
find_files = FindFiles()
```

Filter DataFrame

```
# Import data to datframes
import_data.make_dataframes()
dataframe = import_data.dataframe
```

```
Excel files imported:

Deduplication Steps.xlsx 986 rows 9 Columns
```

```
In [6]: """ DataFrame Feltling """;
```

```
In [10]:
          lass Fettling:
                self.df = df
            def add columns(self):
                self.df = self.df.astype({'Key': pd.Int64Dtype(), 'Year':
        pd.Int64Dtype()})
                                    'Notes']].copy()
            def run(self):
```

```
In [ ]:
In [11]:
            ss DataFilter:
                self.df = df
            def find words(self, element, target words):
                return any (re.search (target word, element.lower()) for target word in
        target words)
                filt = self.df['Abstract'].apply(self.find words, args=
         self.animal words,))
```

```
export data = ExportData(df animals, f"animals {df animals.shape}")
       export data.export to excel()
self.paediatric words,))
       filt2 = self.df['Journal'].apply(self.find words, args=
self.paediatric words,))
       export data = ExportData(df paediatrics, f"paediatrics
df paediatrics.shape}")
       export data.export to excel()
   def dataframe filtering(self):
       filt1 = self.df['Abstract'].apply(self.find words, args=
(self.animal words,))
       filt2 = self.df['Title'].apply(self.find words, args=
self.paediatric words,))
       filt3 = self.df['Journal'].apply(self.find words, args=
self.paediatric words,))
       export data = ExportData(self.df, f"electronically filt
self.df.shape}")
       export data.export to excel()
   def run(self):
   Datafilter = DataFilter(dataframe)
   dataframe = Datafilter.run()
```