Funicular Internship Task

Shubham Kejriwal

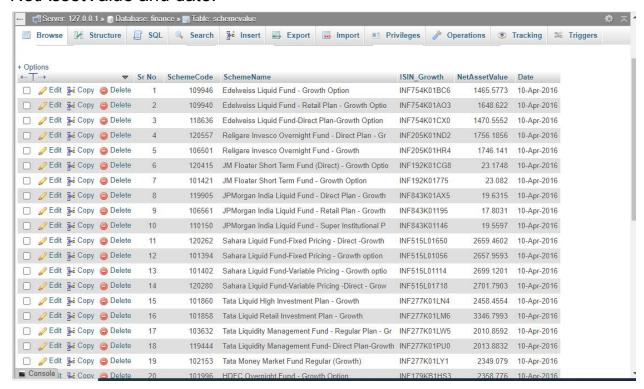
Github Repository: https://github.com/shubhamkej/Web-Scraping-Model Code: #!/usr/bin/env python # coding: utf-8 # In[8]: import os import selenium from selenium import webdriver import time import io import requests import re import mysql.connector from webdriver_manager.chrome import ChromeDriverManager from selenium.common.exceptions import ElementClickInterceptedException # In[9]: driver = webdriver.Chrome() # Calling Web Driver # In[10]: def store_function(content): splittedcontent = content.splitlines(0) # Splitting into list at next line $regex = re.compile(r'[^0-9]+.$')$ filtered = [i for i in splittedcontent if not regex.match(i)] # Delete elements that don't start with numbers while("" in filtered): filtered.remove("") # Removing Null Elements

```
regex = re.compile(r'^.*Growth+.*$')
  final = [i for i in filtered if regex.match(i)]
                                                            # Removing elements which does
not have growth in it
  mydb = mysql.connector.connect(
                                                            # Database Connectivity
   host="localhost",
   user="root",
   password="",
   database="finance"
  for i in final:
                                                     # Splitting elements of list to store in DB
     stri = i.split(";")
     d = stri[0]
     a = stri[1]
     b = stri[2]
     n = stri[5]
     da = stri[7]
     mycursor = mydb.cursor()
     sql = "INSERT INTO schemevalue (SchemeCode, SchemeName, ISIN_Growth,
NetAssetValue, date) VALUES ( %s, %s, %s, %s, %s)"
     val = (d, a, b, n, da)
     mycursor.execute(sql, val)
                                                     # Inserting in Database
     mydb.commit()
     print(mycursor.rowcount, "record inserted.")
     print(mydb)
# In[22]:
list1 = ["10", "11", "12", "13", "14","15"] # Making list so don't have to change manually
list2 = ["Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"]
list3 = ["2016", "2017", "2018", "2019", "2020"]
sk = "http://portal.amfiindia.com/DownloadNAVHistoryReport_Po.aspx?frmdt="
for k in list3:
                                             # For loop for year
  for j in list2:
                                             # For loop for month
     if(k=='2016' \text{ and } (j=='Jan' \text{ or } j=='Feb' \text{ or } j=='Mar')):
       continue;
```

Algorithm:

- Call Main
- Run 3 Nested Loops for Year, Month (Not including Jan, Feb and Mar of 2016 and break after Oct 2020) and Date
- Extract Data for each date, take it as a string and send it to function
- Split data into list for every new line in string
- Delete elements that don't start with numbers
- Remove Null elements
- Remove elements which don't have "Growth" word in it.
- Database Connectivity
- Split elements of list at ";"
- Store 1st, 2nd, 3rd, 6th and 8th element in the database.

Output: This is how the table looks like in MySQL. It has 6 columns: Sr No(Primary Key), SchemeCode, SchemeName, INIS_Growth, NetAssetValue and date.



-	🗐 Server	127.0.0.	1 » 🧻 Data	base: finar	nce » 🔚 Table: so	hemevalue	
	Browse	M St	tructure	SQL	Search	₃ Insert	g 🍱 Triggers
← 7	Γ -)			Sr No	SchemeCode	SchemeName ISIN_Growth NetAssetValue	Date
		≩ ≟ Copy	Delete	145	130021	SBI Dual Advantage Fund - Series III - Regular Pla INF200K012J1 0	10-Apr-2016
	Edit	≩ € Copy	Delete	146	139123	SBI Dual Advantage Fund - Series XV- Direct Plan - INF200KA1IT3 0	10-Apr-2016
	Edit	≩ € Copy	Delete	147	139121	SBI Dual Advantage Fund - Series XV- Regular Plan INF200KA1IR7 0	10-Apr-2016
	Edit	≩ i Copy	Delete	148	120704	Aditya Birla Sun Life MIP - Direct Plan - Growth INF209K01XB7 39.944	11-Apr-2016
		≩ ≟ Copy	Delete	149	100970	Aditya Birla Sun Life MIP - Regular Plan - Growth INF209K01694 39.2678	11-Apr-2016
	Edit	≩ € Copy	Delete	150	101713	Aditya Birla Sun Life MIP II - Saving 5 Plan - Gro INF209K01728 28.1114	11-Apr-2016
		≩ € Copy	Delete	151	120706	Aditya Birla Sun Life MIP II - Savings 5 Plan - Gr INF209K01XE1 28.491	11-Apr-2016
	Edit	≩ € Copy	Delete	152	120572	Aditya Birla Sun Life Monthly Income - Growth - Di INF209K01YH2 56.974	11-Apr-2016
		≩ ≟ Copy	Delete	153	103185	Aditya Birla Sun Life Monthly Income - Growth - Re INF209K01AZ4 55.7308	11-Apr-2016
	Edit	Copy	Delete	154	118302	Canara Robeco InDiGo Fund - Direct Plan - Growth INF760K01FJ9 14.6423	11-Apr-2016
		≩ ≟ Copy	Delete	155	113101	Canara Robeco InDiGo Fund - Regular Plan - Growth INF760K01AJ0 14.3306	11-Apr-2016
	Edit	≩ € Copy	Delete	156	118312	Canara Robeco Short Term Fund- Direct Plan - Growt INF760K01GH1 17.3879	11-Apr-2016
		≩ ≟ Copy	Delete	157	111879	Canara Robeco Short Term Fund- Institutional Plan INF760K01688 18.1709	11-Apr-2016
	Edit	≩ ≟ Copy	Delete	158	111883	Canara Robeco Short Term Fund- Regular Plan - Grow INF760K01720 17.1631	11-Apr-2016
		≩ € Copy	Delete	159	103277	DSP BlackRock Income Opportunities Fund - Institut INF740K01FN3 2249.8628	11-Apr-2016
	Edit	Copy	Delete	160	105666	DSP BlackRock Strategic Bond Fund - Regular Plan - INF740K01QU5 1952.4516	11-Apr-2016
		≩ € Copy	Delete	161	104142	DSP BlackRock Ultra Short Fund - Institutional Pla INF740K01FS2 2118.6544	11-Apr-2016
	Edit	Copy	Delete	162	109955	Edelweiss Bond Fund - Growth Option INF754K01AH7 1801.8543	11-Apr-2016
		≩ copy	Delete	163	118648	Edelweiss Bond Fund -Direct Plan- Growth Option INF754K01CQ4 1804.6639	11-Apr-2016
	Edit	Copy	Delete	164	109949	Edelweiss Bond Fund - Retail Plan - Growth Option INF754K01AA2 1741.7784	11-Apr-2016
	@ Edit	3 -ċ Copy	Delete	165	118646	Edelweiss Short Term Income Fund - Direct Plan- Gr 17.322	11-Apr-2016