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import pandas as pd
from bs4 import BeautifulSoup

web_url = 'https://en.wikipedia.org/wiki/List_of_largest_public_companies_in_Canada_by_profit'
response = requests.get(web_url)

print('Status code\n', response.status_code)
print('\n--\n')
print('Content of the website\n', response.content[:2000])

soup_object = BeautifulSoup(response.content)

data_table = soup_object.find_all('table', 'wikitable sortable')[1]

all_values = data_table.find_all('tr')
all_values[:5] # Prints the first 5 captured tag elements

#Create an empty dataframe
pubic_companies = pd.DataFrame(columns = ['Rank', 'Rank Change', 'Company', 'Profit', 'Headquarter'])

#Use for loop to iterate each element into the empty dataframe
for row in all_values[1:]:
    values = row.find_all('td') # Extract all elements with tag <td>
    # Pick only the text part from the <td> tag
    rank = values[0].text.replace('\n', '')
    rank_change = values[1].img["alt"]+ values[1].text.replace('\n', '')
    company = values[2].text.replace('\n', '')
    profit = values[3].text.replace('\n', '')
    headquarter = values[4].text.replace('\n', '')

    pubic_companies.loc[ix] = [rank, rank_change, company, profit, headquarter]
    ix += 1

#export it to csv format
pubic_companies.to_csv('largest public companies in Canada by profit', index=False)
```

```
<title>List of largest public companies in Canada by profit - Wikipedia</title>\n<script>document.
documentElement.className="client-js";RLCONF={{"wgBreakFrames":!1,"wgSeparatorTransformTable":["",""],
"wgDigitTransformTable":["",""],"wgDefaultDateFormat":"dmy","wgMonthNames":["","January","February",
"March","April","May","June","July","August","September","October","November","December"],"wgRequest
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cialPageName":!1,"wgNamespaceNumber":0,"wgPageName":"List_of_largest_public_companies_in_Canada_by_p
rofit"},"wgTitle":"List of largest public companies in Canada by profit","wgCurRevisionId":982509858,
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,"wgUserName":null,"wgUserGroups":["*"],"wgCategories":["Articles with short description","Short des
cription matches Wikidata","Wikipedia articles in need of updating from February 2019","All Wikipedi
a articles in need of updating","Lists of companies of Canada","\nPublicly traded companies of Canad
a"],"wgPageContentLanguage":"en","wgPageContentModel":"wikitext","wgRelevantPageName":"List_of_larg
st_public_companies_in_Canada_by_profit","wgRelevantArticleId":36374850,"wgIsProbablyEditable":!0,"w
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ick":!0,"wgMediaViewerEnabledByDefault":!0,"wgPopupsReferencePreviews":!1,"wgPopupsConflictsWithNavP
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ks":"en"},"wgMFDDisplayWikibaseDescriptions":{"search":!0,"nearby":!0,"watchlist":!0,"tagline":!1},"w
gWMESchemaEditAttemptStepOversample":!1,"wgULSCurrentAutonym":"English","wgNoticeProject":"wikipedia
","wgCentralAuthMobileDomain":!1,"wgEditSubmitButtonLabelPublish":!0,"wgULSPosition":"interlanguage"
,"wgWikib'
```

In [12]:

```
pubic_companies.head(10)
```

Out[12]:

	Rank	Rank Change	Company	Profit	Headquarter
500	1	Increase 2	Royal Bank of Canada	7,442,000	Toronto & Montreal
501	2	Steady	Bank of Nova Scotia	6,466,000	Toronto
502	3	Decrease 2	Toronto-Dominion Bank	6,367,000	Toronto
503	4	Increase 3	Bank of Montreal	4,115,000	Montreal & Toronto
504	5	Increase 1	Imperial Oil	3,766,000	Calgary
505	6	Increase 2	Canadian Imperial Bank of Commerce	3,339,000	Toronto
506	7	Decrease 2	Suncor Energy	2,783,000	Calgary
507	8	Increase 5	BCE Inc.	2,763,000	Montreal
508	9	Increase 3	Canadian National Railway	2,680,000	Montreal
509	10	Decrease 2	Potash Corporation of Saskatchewan	2,668,000[1]	Saskatoon