

TaskA

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Q1. Data Wrangling

```
## [1] "debt_df: The number of columns: 63"
## [1] "debt_df: The number of rows: 13824"
```

Q2.Update data frame by reordering

```
## Country.Code      Year NY.GNP.MKTP.CD DT.NFL.BLAT.CD
## 1      MEX year_1995  3.66827e+11  9398190731
## 2      EGY year_2013  2.81028e+11  7233642176
## 3      BRA year_2017  2.02494e+12  6506490468
## 4      PAK year_2018  3.50691e+11  6201281870
```

Q3. Create debt_df2 and replace indicator column names in debt_df by referring to indicator_df

```
## Country.Code      Year Net financial flows, others (NFL, current US$)
## 1      MEX year_1995                                     NA
## 2      EGY year_2013                                   -14314777
## 3      BRA year_2017                                   -195705180
## 4      PAK year_2018                                   321846510
## 5      EGY year_2016                                   2141976215
```

Q4. Combine two data frames: debt_df and country_df

```
## Country.Name      IncomeGroup      Year
## 1      Mexico Upper middle income year_1995
## 2 Egypt, Arab Rep. Lower middle income year_2013
## 3      Brazil Upper middle income year_2017
## Total reserves in months of imports
## 1      2.825546
## 2      2.730040
## 3      14.861069
```

Q5. Rename 5 columns from their original names to the new names

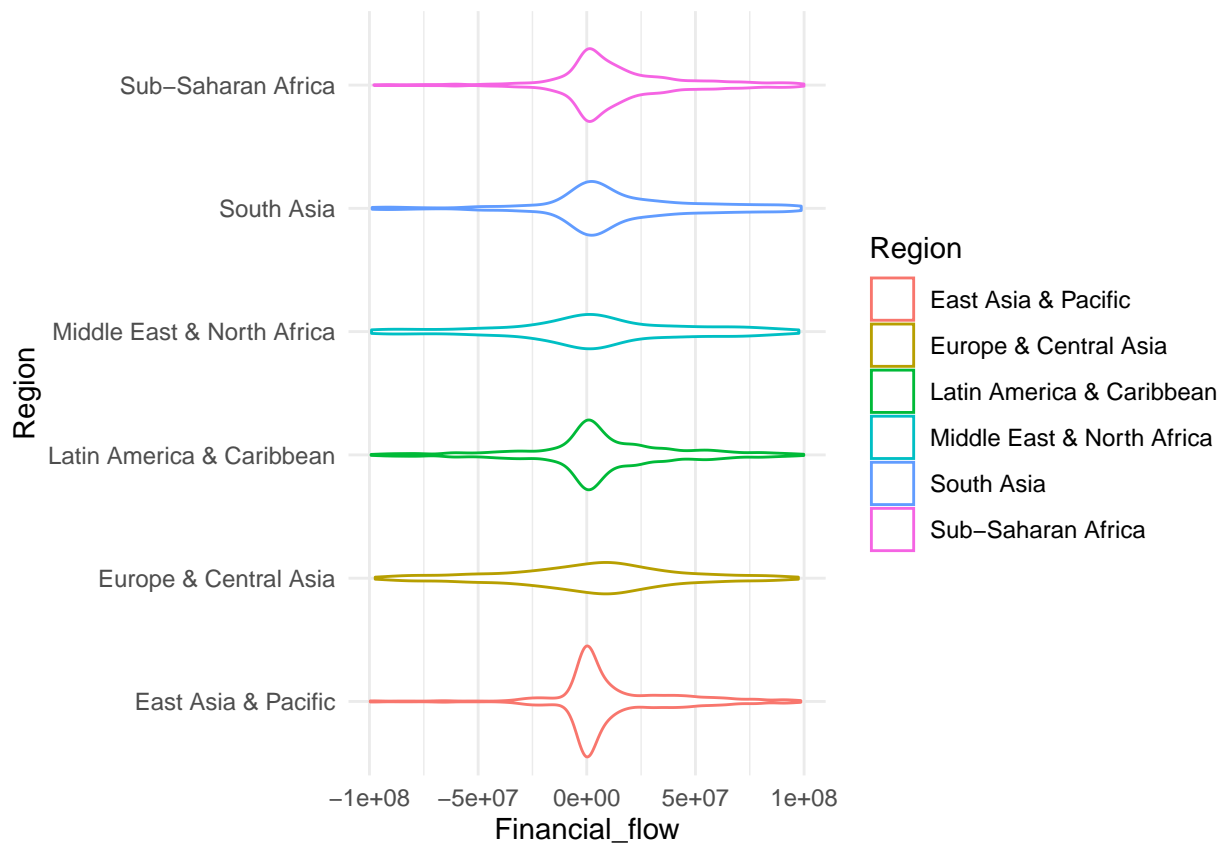
```
## Country.Code      Year Total_reserves External_debt Financial_flow
## 1      MEX year_1995      2.825546  166734000000      9398190731
## 2      EGY year_2013      2.730040   46534987115      7233642176
```

```
## 3      BRA year_2017      14.861069  543000000000  6506490468
## 4      PAK year_2018       1.905231  100199000000  6201281870
## 5      EGY year_2016       3.885411   69188517055  5714011601
##      Imports      IFC
## 1  72391910000      0
## 2  72685700000 -42864095
## 3 301961000000 397855350
## 4  74555877000  11389136
## 5  73019900000  77244772
```

Q6. Create debt_summary

```
## # A tibble: 7 x 5
##   Region      TR_mn      ED_md FF_quantile  IFC_sd
##   <chr>      <dbl>      <dbl>      <dbl>      <dbl>
## 1 East Asia & Pacific    5.19 2248479410  -2357020. 52498519.
## 2 Europe & Central Asia  3.58 8237728122  -53631246. 50820255.
## 3 Latin America & Caribbean 3.84 4159662669  -25144268. 62054545.
## 4 Middle East & North Africa 7.72 7481954468  -92269932. 21414719.
## 5 North America          1.99      NA      NA      NA
## 6 South Asia             4.94 4940329805  -373253. 76630044.
## 7 Sub-Saharan Africa      3.32 1709094992  -1673594. 24748455.
```

Q7. Create a violin plot of “Financial_flow” for each of the regions.



Q8. Create a plot which displays the “Total_reserves” as a function of the years (from 1960 to 2023)

