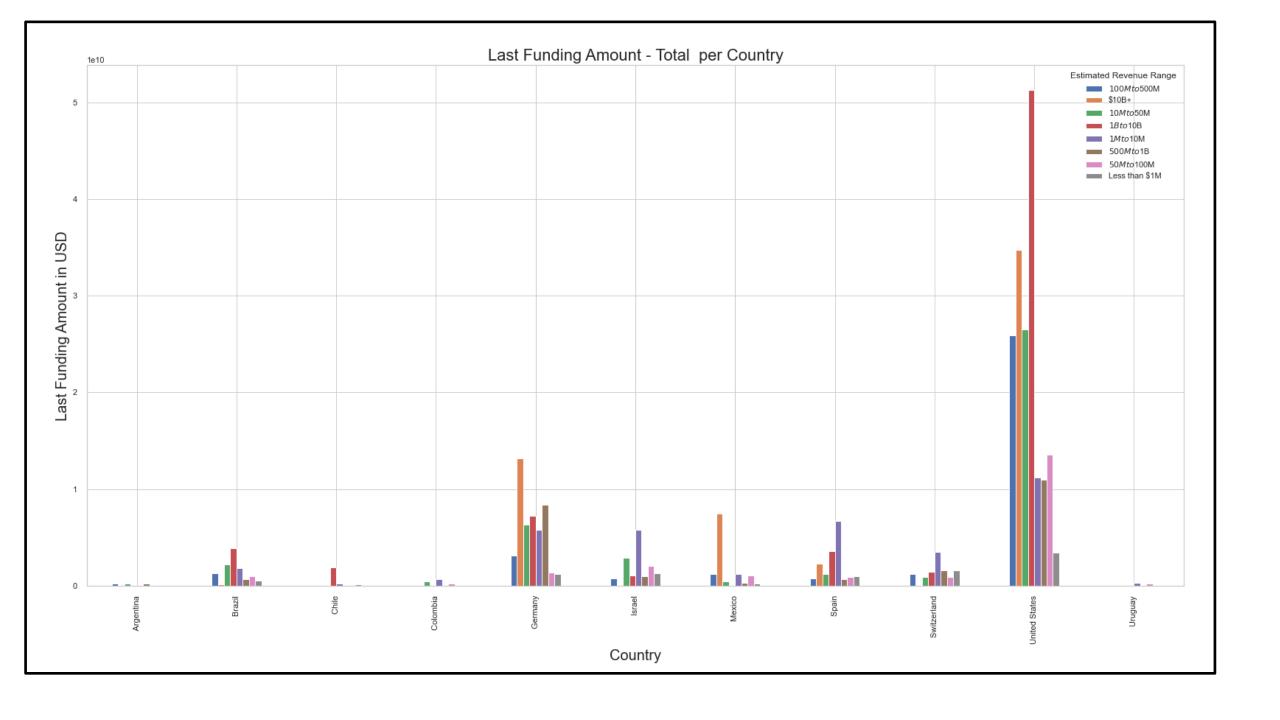
## Archivo: Taller-2\_LPrentt.18-03-2021.py

No se repiten los gráficos de la tarea-2.

Contiene la base de datos de 11 Paises de Marzo de 2021, Se generó crosstab con variables 'Pais', 'Estimated Revenue Range' con aggfunc="sum" y valores = 'Last Funding Amount Currency (in USD)'

Generando la grafica del slide-2.

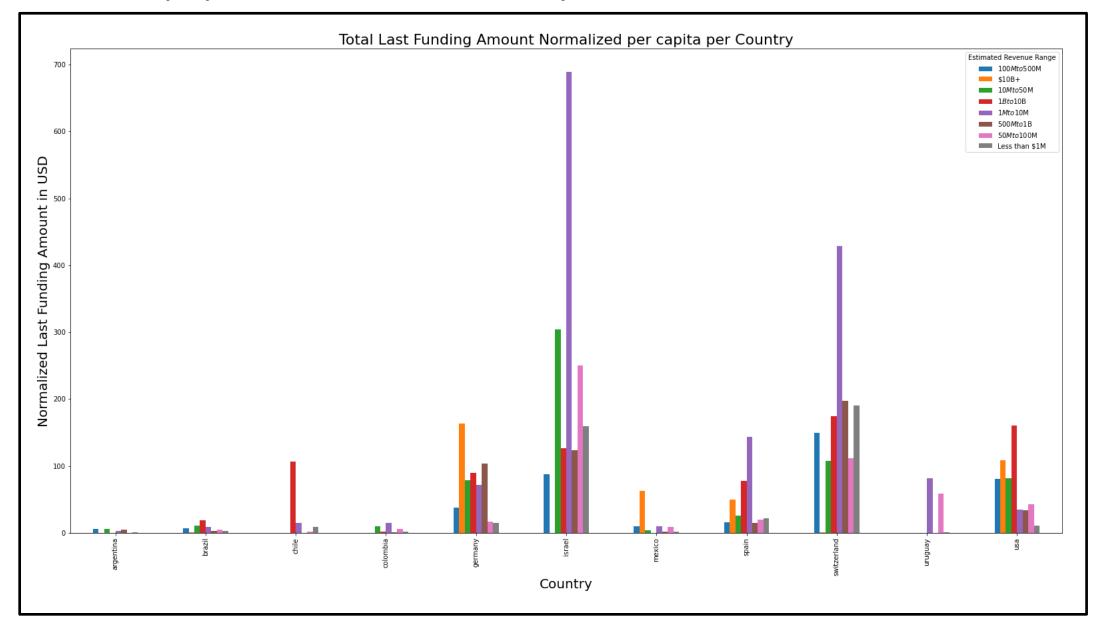
SE pidió en clase tomar la grafica del slide # 2 y normalizer por población de cada pais



## Normalizacion por población. Se utilizo librería Country Info

```
w=pd.crosstab(dfx.Pais,dfx['Estimated Revenue Range'],aggfunc="sum",values=dfx['Last Funding Amount Currency (in USD)'])
e=w.index.unique()
from countryinfo import CountryInfo
population = np.zeros(len(e))
for i in range (len(e)):
  nombrepais=str(e[i])
  country=CountryInfo(nombrepais)
  population[i] = country.population()
country2 = CountryInfo('brazil')
country2.population()
for j in range (len(e)):
  w.iloc[[j]]=w.iloc[[j]]/population[j]
w.plot(kind='bar')
plt.title('Total Last Funding Amount Normalized per capita per Country', fontsize=22)
plt.xlabel('Country', fontsize=20)
plt.ylabel('Normalized Last Funding Amount in USD', fontsize=20)
```

## Normalizacion por población. Se utilizo librería Country Info



Se demuestra que Israel y Suiza producen mas startups que USA y con mayor ingreso percapita. Alemania igual o un poco mayor que USA

| _                             |                 |             |             |              |           |                |                |               |         |                   |         |               |                |                     |                 |                  |                     |                   |                 |                |            |                      |
|-------------------------------|-----------------|-------------|-------------|--------------|-----------|----------------|----------------|---------------|---------|-------------------|---------|---------------|----------------|---------------------|-----------------|------------------|---------------------|-------------------|-----------------|----------------|------------|----------------------|
| CBRank -                      | 1               | -0.062      | -0.19       | -0.34        | -0.08     | -0.083         | -0.069         | -0.072        | -0.1    | -0.11             | -0.1    | -0.1          | -0.33          | -0.33               | -0.079          | -0.088           | 1                   | -0.22             | -0.023          | -0.29          | -0.026     | -0.026               |
|                               | -0.062          | 1           | 0.068       | 0.14         | 0.26      | 0.27           | 0.21           | 0.22          | 0.29    | 0.3               | 0.37    | 0.38          | 0.13           | 0.14                | 0.55            | 0.57             | -0.062              | 0.14              | 0.049           | 0.35           | 0.13       | 0.13                 |
| Number of Founders -          | -0.19           | 0.068       | 1           | 0.18         | 0.033     | 0.04           | 0.033          | 0.041         | 0.053   | 0.058             | 0.048   | 0.052         | 0.15           | 0.18                | 0.1             | 0.098            | -0.19               | 0.096             | 0.0054          | 0.12           | 0.0094     | 0.0094               |
|                               | -0.34           | 0.14        | 0.18        | 1            | 0.078     | 0.087          | 0.096          | 0.11          | 0.25    | 0.26              | 0.26    | 0.27          | 0.68           | 0.67                | -0.029          | 0.095            | -0.34               | 0.26              | 0.0078          | 0.31           | 0.11       | 0.11                 |
| Last Funding Amount -         | -0.08           | 0.26        | 0.033       | 0.078        | 1         | 0.96           | 0.99           | 0.95          | 0.87    | 0.83              | 0.76    | 0.72          | 0.13           | 0.075               | 0.21            | 0.14             | -0.079              | 0.12              | 0.067           | 0.16           | 0.17       | 0.17                 |
|                               | -0.083          | 0.27        | 0.04        | 0.087        | 0.96      | 1              | 0.95           | 0.99          | 0.84    | 0.87              |         | 0.75          | 0.14           | 0.081               | 0.21            | 0.14             | -0.082              | 0.13              | 0.076           | 0.17           | 0.17       | 0.17                 |
| Last Equity Funding Amount -  | -0.069          | 0.21        | 0.033       | 0.096        | 0.99      | 0.95           | 1              | 0.96          | 0.88    | 0.84              | 0.73    | 0.69          | 0.17           | 0.091               | 0.18            | 0.13             | -0.068              | 0.11              | 0.06            | 0.16           | 0.18       | 0.18                 |
|                               | -0.072          | 0.22        | 0.041       | 0.11         | 0.95      | 0.99           | 0.96           | 1             | 0.85    | 0.88              | 0.71    | 0.73          | 0.19           | 0.096               | 0.19            | 0.13             | -0.071              | 0.13              | 0.068           | 0.17           | 0.18       | 0.18                 |
| Total Equity Funding Amount - | -0.1            | 0.29        | 0.053       | 0.25         | 0.87      | 0.84           | 0.88           | 0.85          | 1       | 0.97              | 0.92    | 0.89          | 0.33           | 0.26                | 0.18            | 0.15             | -0.1                | 0.15              | 0.045           | 0.2            | 0.18       | 0.18                 |
|                               | -0.11           | 0.3         | 0.058       | 0.26         | 0.83      | 0.87           | 0.84           | 0.88          | 0.97    | 1                 | 0.9     | 0.91          | 0.34           | 0.27                | 0.18            | 0.15             | -0.1                | 0.16              | 0.05            | 0.2            | 0.18       | 0.18                 |
| Total Funding Amount -        | -0.1            | 0.37        | 0.048       | 0.26         | 0.76      |                |                | 0.71          | 0.92    | 0.9               |         | 0.98          | 0.3            | 0.27                | 0.18            | 0.14             | -0.1                | 0.14              | 0.037           | 0.19           | 0.13       | 0.13                 |
|                               | -0.1            | 0.38        | 0.052       | 0.27         | 0.72      | 0.75           | 0.69           | 0.73          | 0.89    | 0.91              | 0.98    | 1             | 0.31           | 0.27                | 0.18            | 0.14             | -0.1                | 0.15              | 0.039           | 0.2            | 0.13       | 0.13                 |
| Number of Lead Investors -    | -0.33           | 0.13        | 0.15        | 0.68         | 0.13      | 0.14           | 0.17           | 0.19          | 0.33    | 0.34              | 0.3     | 0.31          | 1              | 0.66                | -0.031          | 0.11             | -0.33               | 0.28              |                 | 0.32           | 0.057      | 0.057                |
|                               | -0.33           | 0.14        | 0.18        | 0.67         | 0.075     | 0.081          | 0.091          | 0.096         | 0.26    | 0.27              | 0.27    | 0.27          | 0.66           | 1                   | -0.029          | 0.074            | -0.33               | 0.29              |                 | 0.33           | 0.02       | 0.02                 |
| Number of Acquisitions -      | -0.079          | 0.55        | 0.1         | -0.029       | 0.21      | 0.21           | 0.18           | 0.19          | 0.18    | 0.18              | 0.18    | 0.18          | -0.031         | -0.029              | 1               | 0.65             | -0.079              | 0.091             | 0.14            | 0.4            | 0.13       | 0.13                 |
|                               | -0.088          | 0.57        | 0.098       | 0.095        | 0.14      | 0.14           | 0.13           | 0.13          | 0.15    | 0.15              | 0.14    | 0.14          | 0.11           | 0.074               | 0.65            | 1                | -0.088              | 0.16              | 0.12            | 0.49           | 0.19       | 0.19                 |
| CB Rank (Organization) -      | 1               | -0.062      | -0.19       | -0.34        | -0.079    | -0.082         | -0.068<br>0.11 | -0.071        | -0.1    | -0.1              | -0.1    | -0.1          | -0.33          | -0.33               | -0.079<br>0.091 | -0.088           | -0.21               | -0.21<br>1        | -0.023<br>0.066 | -0.29<br>0.53  | -0.026     | -0.026               |
| Annaharia Nasaharan Anna      | -0.22<br>-0.023 | 0.14        | 0.096       | 0.26         | 0.12      | 0.13           | 0.11           | 0.13          | 0.15    | 0.16              | 0.14    | 0.15          | -0.033         | -0.0011             | 0.091           | 0.16             | -0.023              | 0.066             | 0.066           | 0.05           | 0.15       | 0.15                 |
| Apptopia - Number of Apps -   | -0.29           | 0.049       | 0.0034      | 0.0076       | 0.067     | 0.076          | 0.16           | 0.000         | 0.043   | 0.03              | 0.19    | 0.039         | 0.32           | 0.33                | 0.14            | 0.12             | -0.29               | 0.53              | 0.05            | 0.03           | 0.026      | 0.020                |
| Aberdeen - IT Spend -         | -0.026          | 0.13        | 0.0094      | 0.11         | 0.10      | 0.17           | 0.18           | 0.17          | 0.18    | 0.18              | 0.13    | 0.13          | 0.057          | 0.02                | 0.13            | 0.19             | -0.026              | 0.15              | 0.026           | 0.23           | 1          | 1                    |
| Aperacen - 11 Spenu -         | -0.026          | 0.13        | 0.0094      | 0.11         | 0.17      | 0.17           | 0.18           | 0.18          | 0.18    | 0.18              | 0.13    | 0.13          | 0.057          | 0.02                | 0.13            | 0.19             | -0.026              | 0.15              | 0.026           | 0.23           | 1          | 1                    |
|                               | -,-             |             | -           |              |           |                |                |               |         |                   |         | -             | ,              | ,                   |                 |                  |                     |                   |                 | - e            |            |                      |
|                               | CBRank          | of Articles | of Founders | nding Rounds | Amount    | rency (in USD) | Funding Amount | ency (in USD) | Amount  | Currency (in USD) | Amount  | (in USD)      | Lead Investors | Number of Investors | Acquisitions    | Number of Events | Rank (Organization) | Active Tech Count | Number of Apps  | Products Activ | - IT Spend | nd Currency (in USD) |
|                               |                 | Number o    | ber of      | Fundin       | Funding / | irrency        | unding         | irrency       | Funding | irrency           | Funding | irrency (in l |                | ber of              | oť              | mber (           | c (Orga             | tive Te           | Numbe           |                | rdeen -    | ırrency              |
|                               |                 | 2           | Number      | ber of I     | Last F    | ount Cu        | quity F        | unt Cu        | quity F | ount Cu           | Total F | ount Curr     | nber of        | Num                 | lumber          | ž                | 2B Rani             | ith - Ac          | opia - I        | - Total        | Aber       | end Cu               |