Assignment 4: Becoming an Independent Data Scientist

1. Region and Domain

The dataset is from Poland and the category is 'Sport', specifically the investment made in sport from 2014 to 2016.

The funds are from the Physical Culture Development (**środków Funduszu Rozwoju Kultury Fizycznej**).

2. Research question

Determine the variation in investment by the Physical Culture Development funds in Sport in Poland (by province)
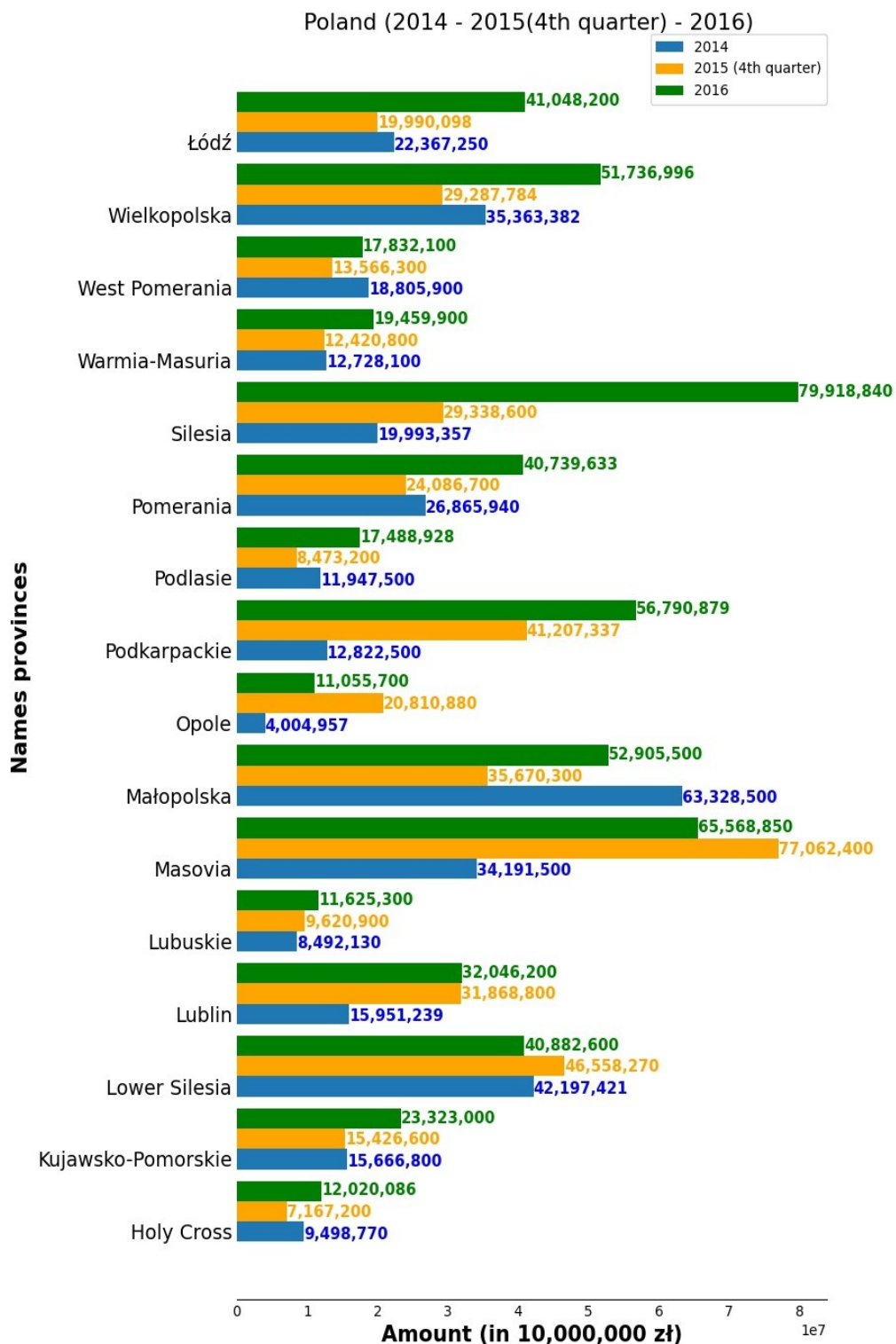
3. Links

https://dane.gov.pl/dataset/333,inwestycje-sportowe-dofinansowane-ze-srodkow-funduszu-rozwoju-kultury-fizycznej-w-2014-r

https://dane.gov.pl/dataset/181,inwestycje-sportowe-dofinansowane-ze-srodkow-funduszu-rozwoju-kultury-fizycznej-w-2015-r-4-kwartay

https://dane.gov.pl/dataset/717,inwestycje-sportowe-dofinansowane-ze-srodkow-funduszu-rozwoju-kultury-fizycznej-w-2016-r

4. Image

Investment in Sport by the Physical Culture Development funds
In each province
Amount in zlotych (1$ = 3.78 zł)

Poland (2014 - 2015(4th quarter) - 2016)

Legend:
- 2014
- 2015 (4th quarter)
- 2016

Province	2014	2015 (4th quarter)	2016
Łódź	22,367,250	19,990,098	41,048,200
Wielkopolska	35,363,382	29,287,784	51,736,996
West Pomerania	18,805,900	13,566,300	17,832,100
Warmia-Masuria	12,728,100	12,420,800	19,459,900
Silesia	19,993,357	29,338,600	79,918,840
Pomerania	26,865,940	24,086,700	40,739,633
Podlasie	11,947,500	8,473,200	17,488,928
Podkarpackie	12,822,500	41,207,337	56,790,879
Opole	4,004,957	20,810,880	11,055,700
Małopolska	63,328,500	35,670,300	52,905,500
Masovia	34,191,500	77,062,400	65,568,850
Lubuskie	8,492,130	9,620,900	11,625,300
Lublin	15,951,239	31,868,800	32,046,200
Lower Silesia	42,197,421	46,558,270	40,882,600
Kujawsko-Pomorskie	15,666,800	15,426,600	23,323,000
Holy Cross	9,498,770	7,167,200	12,020,086

Names provinces (y-axis)

Amount (in 10,000,000 zł) (x-axis): 0, 1, 2, 3, 4, 5, 6, 7, 8 (1e7)

5. Discussion

In the visualization, I used bar chart in order to show how the amount invested in sport changed over the years. In a bar chart, we can compare 2 values by comparing the height of their bars.
In this specific case, the different years are represented with different colors in order to get the difference between them.
As help also, at the end of each bar, there is the proper amount in local money, so that everything will be clear in order of the amount.