**Relationship between GDP per Capita and population across European cities**

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Chart, scatter chart

Description automatically generated

Figure 1: Relationship between Log of GDP per Capita and Log of Population on normal scale

Chart, scatter chart

Description automatically generated

Figure 2: Relationship between Log of GDP per Capita and Log of Population on logarithmic scale

From the graphs and equation above, we can see that there is a super-linear relationship between GDP per Capita and Population. As well as this, we can see that there is a strong correlation between GDP per Capita and Population (*ρ* = 0.92). From this we can infer that in general, the higher the population of a city, the higher we can expect its GDP per Capita to be.