

Assignment 1

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```
# Installing necessary package(s)
install.packages("ggplot2")

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.5'
## (as 'lib' is unspecified)

library(ggplot2)
```

Dataset

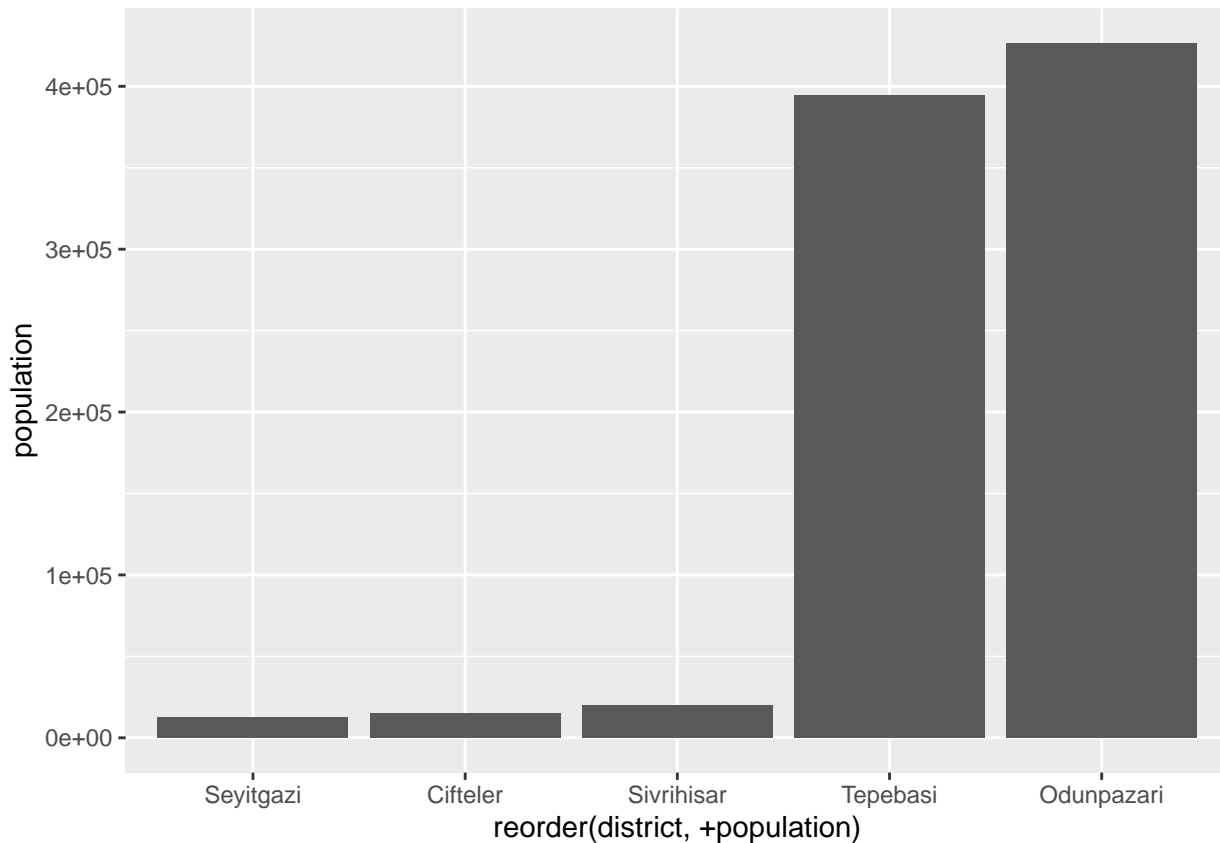
The dataset `eskisehir` contains the total population for the top-5 crowded districts of Eskisehir in 2024.

```
eskisehir <- data.frame(
  district = c("Odunpazari", "Tepebasi", "Sivrihisar", "Cifteler", "Seyitgazi"),
  population = c(426581, 394734, 20258, 14814, 12878))
```

Drawing a barplot

1. Please draw a barplot to visualize the population of districts (20 pts).

```
ggplot(eskisehir, aes(x = reorder(district, +population), y = population)) +
  geom_bar(stat = "identity")
```



2. Please solve the problems in the plot to make it better (20 pts).
3. Then configure the plot to present it in a better way (40 pts). You can use the tricks that you learned in the lecture.

```
labs(x      = "District",
     y      = "population",
     title  = "Eskisehir District",
     caption = "Data source: eskisehir.bel.com.tr")
```

```
## <ggplot2::labels> List of 4
## $ x      : chr "District"
## $ y      : chr "population"
## $ title  : chr "Eskisehir District"
## $ caption: chr "Data source: eskisehir.bel.com.tr"
```

4. Interpret the plot (20 pts). It must be about the information of the district populations not the technical part of the plot.

1-The most populous district of Eskişehir is Odunpazari. 2-Seyitgazi is the least populous district of Eskişehir. 3-The total population of the five districts of Eskişehir is 869,265. 4-The average population of the five districts of Eskişehir is 173,853 ...