

Exercícios

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Perguntas

Considerando o banco de dados “flights” presente no pacote “nycflights13” do R, responda:

1. Find all flights that:
 - a. Had an arrival delay of two or more hours.
 - b. Flew to Houston (IAH or HOU).
 - c. Departed in summer (July, August, and September).
 - d. Arrived more than two hours late, but didn't leave late.
 - e. Departed between midnight and 6am (inclusive).
2. Which flights have a missing departure time?
3. Sort flights to find the most delayed flights.
4. Which flights travelled the farthest?
5. Select variables containing the word “time”. (Dica: Use também a função *contains*.)
6. Select variables ending with the word “delay”. (Dica: Use também a função *ends_with*.)
7. Add two variable to the dataset: departed hour and departed minute.
8. Find the average departure delay (per day) and the number of flights (per day).
 - a. Present results in a table.
 - b. Plot the average departure delay (per day).
9. Answer the following questions.
 - a. Find the flights not cancelled (departure delay is not NA and arrival delay is not NA).
 - b. Find the average departure delay of non-cancelled flights by airplane.
 - c. Plot the result b)
 - d. Add to table b) the counts (number of observations used to compute each average)
 - e. Plot counts x average delay.
 - f. Comment on the results c) and e).