dplyr Lab

2019-01-29

- The following exercises are all from Section 5.7.1 of RDS.
- Use the flights data frame from the nycflights13 package.
- 1. Which plane (tailnum) has the worst departure delay record?
- 2. What time of day should you fly if you want to avoid delays as much as possible?
- 3. For each destination, compute the total minutes of arrival delay. For each flight, compute the proportion of the arrival delay for its destination.
- 4. Delays are typically temporally correlated: even once the problem that caused the initial delay has been resolved, later flights are delayed to allow earlier flights to leave. Using lag(), explore how the departure delay of a flight is related to the delay of the immediately preceding flight.
- 5. Look at each destination. Can you find flights that are suspiciously fast? (i.e. flights that represent a potential data entry error). Compute the air time of a flight relative to the shortest flight to that destination. Which flights were most delayed in the air?
- 6. Find all destinations that are flown by at least two carriers. (hint: use n_distinct())