Exercise 7 – Sliding Windows

In this exercise we'll use sliding windows to gain information from a dataset.
The file uber.csv contains data from Uber application over few days.
Load the file into a dataframe and complete the following tasks:

Complete the following tasks:

1. Which date had the most completed trips?
2. What was the highest number of completed trips within a 24-hour period?
3. Which hour of the day had the most requests?
4. What percentages of all zeroes during the two-week period occurred on weekends (Friday at 5 pm to Sunday at 3 am)?
5. In drafting a driver schedule in terms of 8 hours shifts, when are the busiest 8 consecutive hours in terms of unique requests? A new shift starts every 8 hours. Assume that a driver will work the same shift each day.