

## **Problem Statement**

At Airbnb, it is important for us to know when something goes wrong or our key business metrics are moving outside of our expectations. To this end, we set up alerts that are triggered when a metric moves outside of our expectations. These alerts allow us to be proactive in fixing problems rather than waiting for catastrophes.

The product team has asked you to follow the number of bookings per day in two key markets and alert them when the daily fluctuation is too high. For this alert, they've asked you to create a 30-day rolling average and alert them when the daily value is above or below two standard deviations of the rolling mean.

We have provided a dataset in csv format for you to test out your alert. When you apply this alert over the past year for these two markets, how many alerts would have been triggered by this rule for each market?