The Importance of the 'pickiness predictor' and the 'vacationiness variable'

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Problem: Are vacation-home rental sites affecting hotel bookings? If so, how?

What leads to pickiness and bookings on Expedia site?

Does AirBnb affect Expedia pickiness?

Mean analysis of cities' pickiness scores

Time series analysis of bookings in 2015 year based on price difference

Build learning models: what constitutes pickiness? Are there other more influential factors on booking?

Case study: Selected cities in the US with differing AirBnb versus hotel price ratios (<1, around 1, >1)

New York, NY (<1)

Austin, TX (>1)

Los Angeles, CA (=1)

Airbnb

Expedia
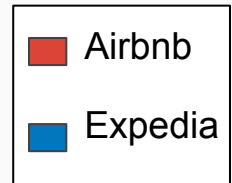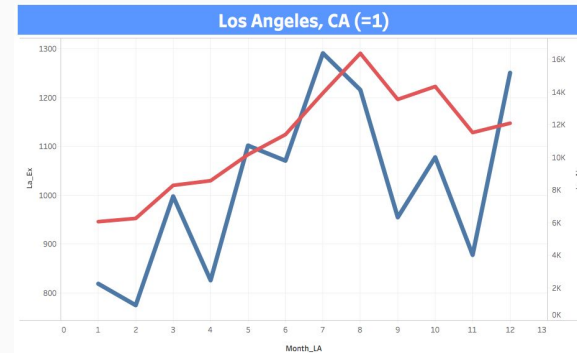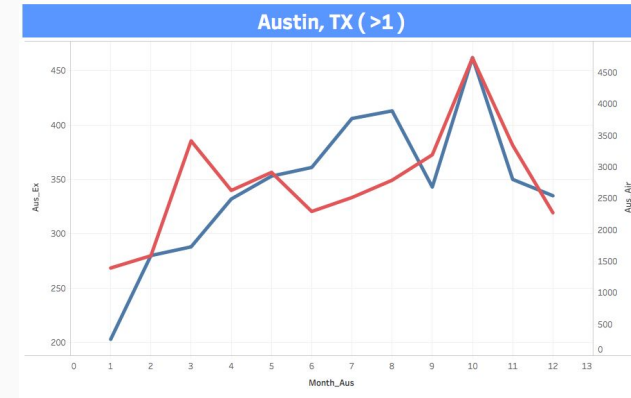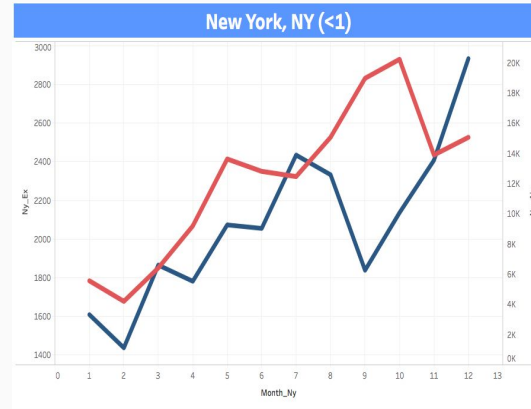
Influential Variables

What are users looking for when booking hotels? Are there differences in terms of "pickiness" between different city locations? Are there other factors (tourist attraction) that are influential on whether customers book or not?

- select user_id, max(is_booking), count(is_booking) from Seattle **group by user_id, srch_ci; ← mysql query that led us to believe vacationiness is a larger source of variance**