

Harriott Hotels Analysis

Yiming Ge

General Data Summary



568 M

Total revenue from 2014 to 2016 is 568 million.
1.22 million transactions in total.

100 K

Total guests are 100 thousand. 40% are female(40.07K) and 60% are male (59.93K).

3 days

Average stays for each costumer is almost 3 days (2.7 days)

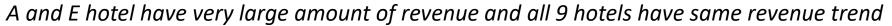
87K

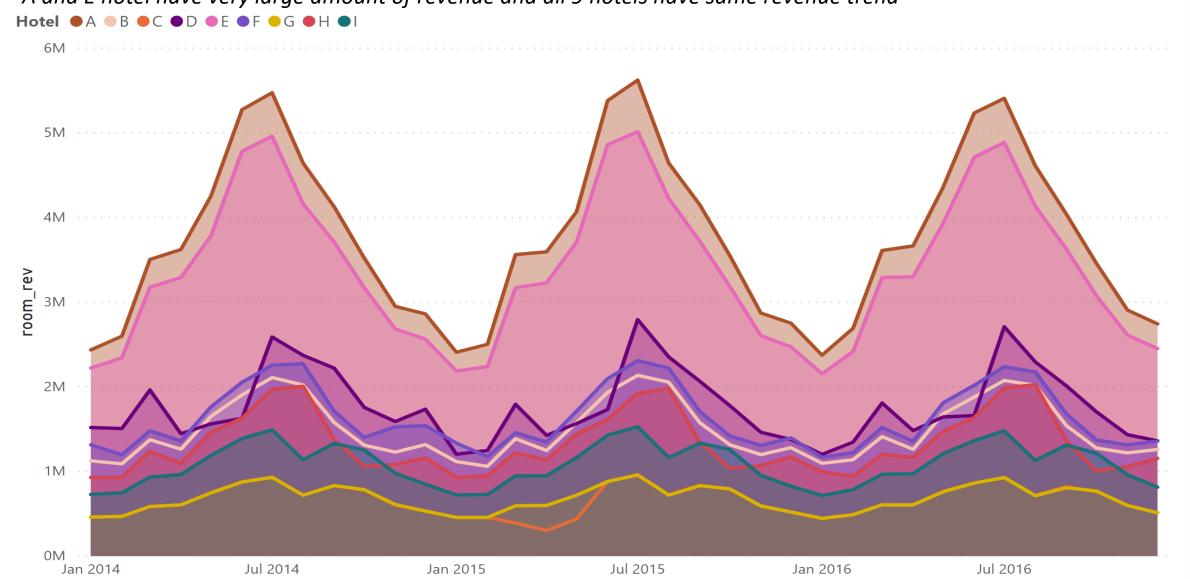
Costumers'
average
household
income is 86.74
thousand (higher
than US HHI
median 59
thousand) and
the avg. NPS is
7.59

Revenue Analysis



Revenue Trend



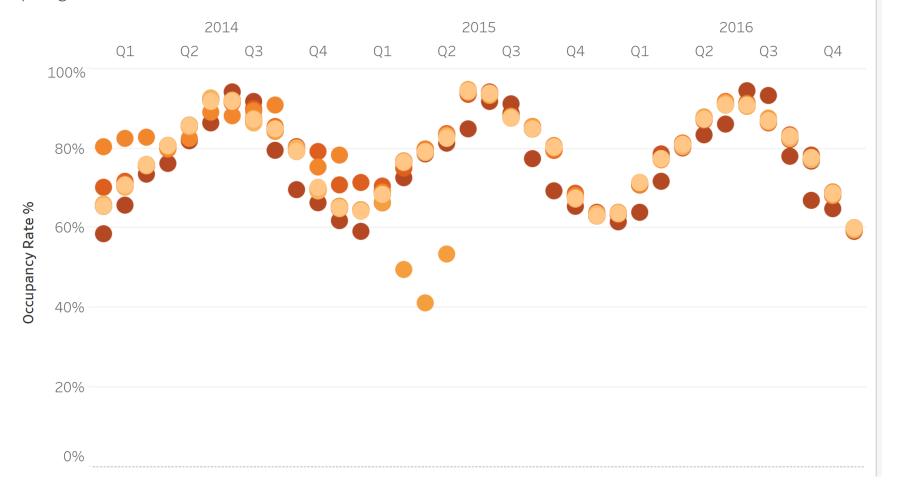


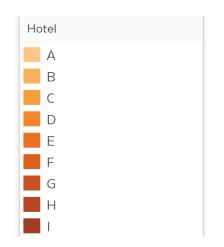
Occupancy Analysis



Occupancy Rate

Seansonality. High occupancy rate in Summer and Fall and low occupancy rare in Winter and Spring.



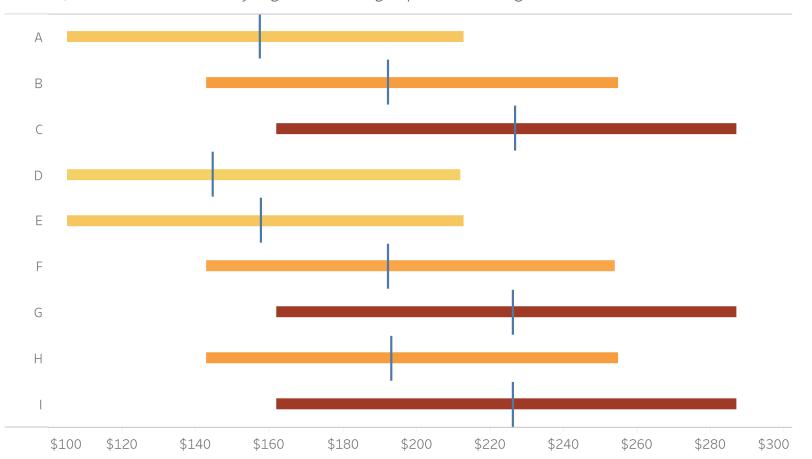


Room Night Price



Room Night Pricing

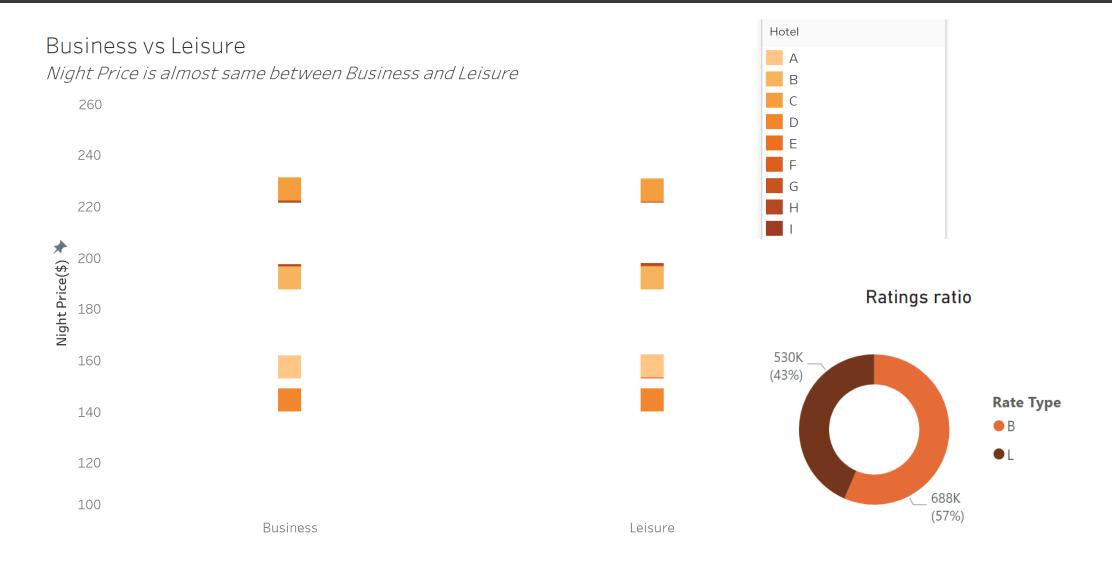
Hotel C,G and I have relatively higher room night price and range in these 9 hotels





Business Price vs Leisure Price



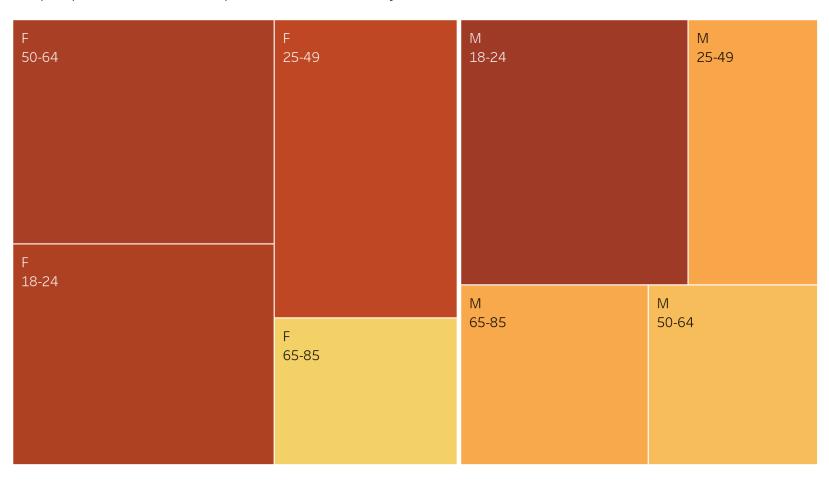


Customers Age Analysis



Amenity Revenue

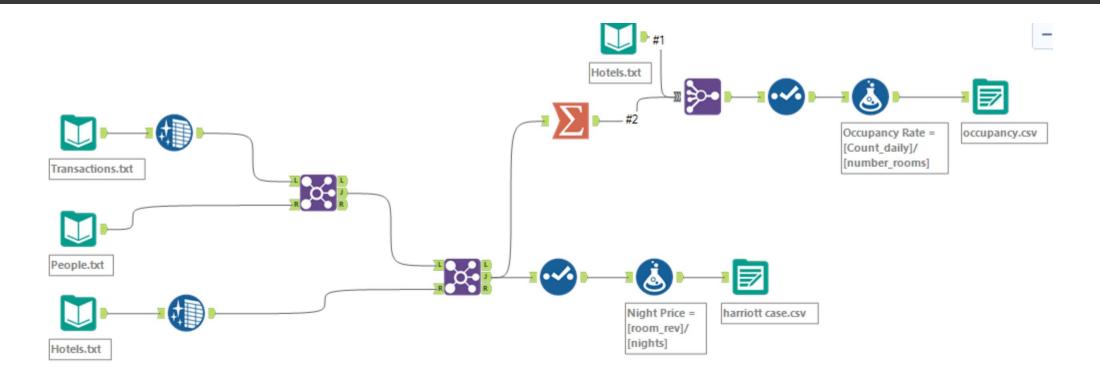
Old people would like to spend less in amenity.





Data Processing





- 1. Clean Nulls in both Hotels and Transactions data.
- 2. Join people and transactions with person_id, then join with Hotels with hotel_id.
- 3. Change String to Double and use room_rev/nights to calculate night price.
- 4. Count trans_id and group by checkin and hotel_id to get Count_daily.
- 5. Change String to Double and use Count_daily divided by number_rooms to get Occupancy Rate.