Legends

I.   Hotel Selection Aanalysis
II. Based on facility.
III. Summary Data.
IV. Market Aanalysis.
V.   Booking cancellations .
VI. Challenges .
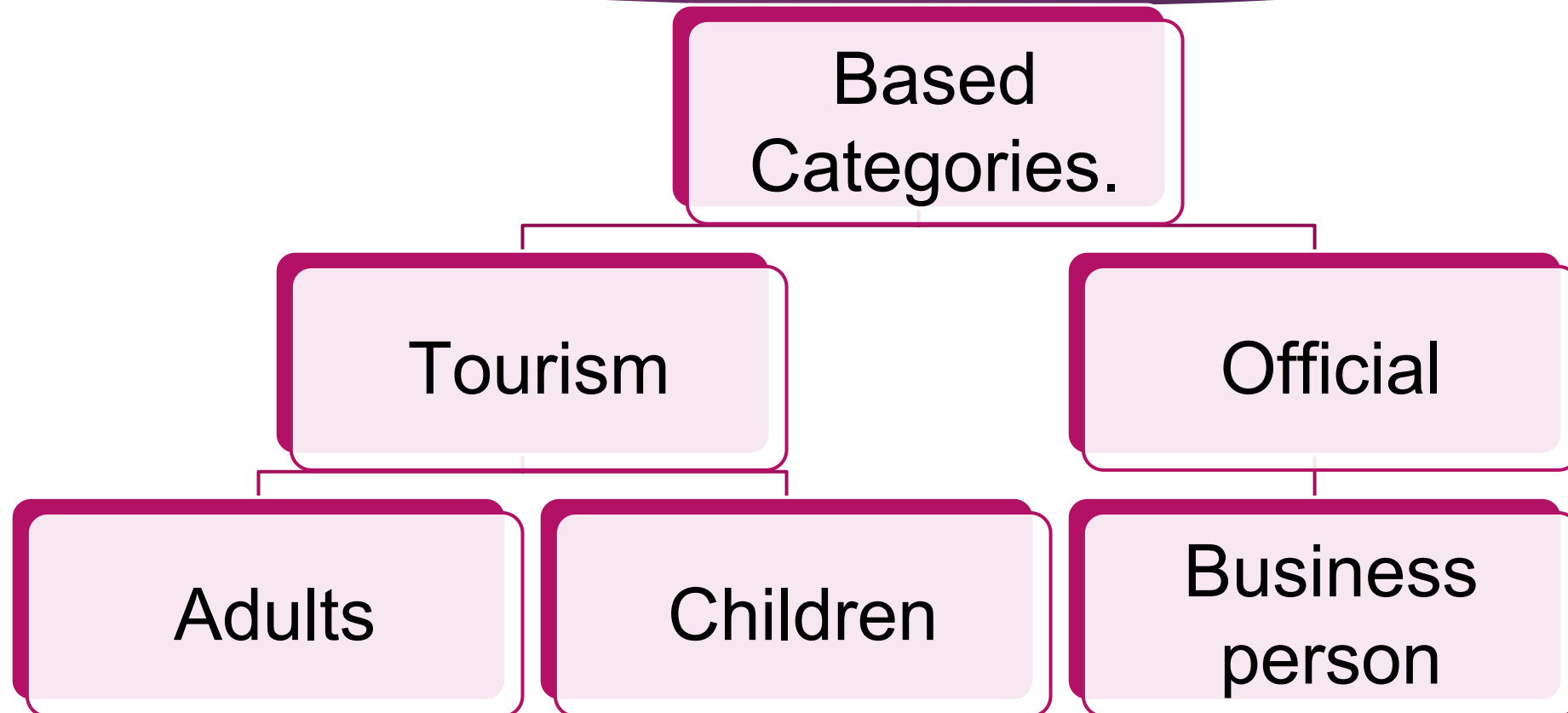VII. Conclusion .
VIII. Summary .

Selection Aanalysis

Based on Categories.

Resort Hotel.

City Hotel.

Continue...

```
                 ┌─────────────────┐
                 │      Based      │
                 │   Categories.   │
                 └────────┬────────┘
            ┌─────────────┴──────────────┐
     ┌──────────────┐              ┌──────────────┐
     │   Tourism    │              │   Official   │
     └──────┬───────┘              └──────┬───────┘
      ┌─────┴─────┐                       │
┌──────────┐ ┌──────────┐          ┌──────────────┐
│  Adults  │ │ Children │          │  Business    │
│          │ │          │          │   person     │
└──────────┘ └──────────┘          └──────────────┘
```

Based On Facilities.

I. **Purpose Of Visit :: A. Official B. Tour/Spiritual**

II. **Based On Area / Location .**

III. **Car Parking – Sufficient space with good car parker / driver availability.**

II. Summary Data.

Types Of Hotel
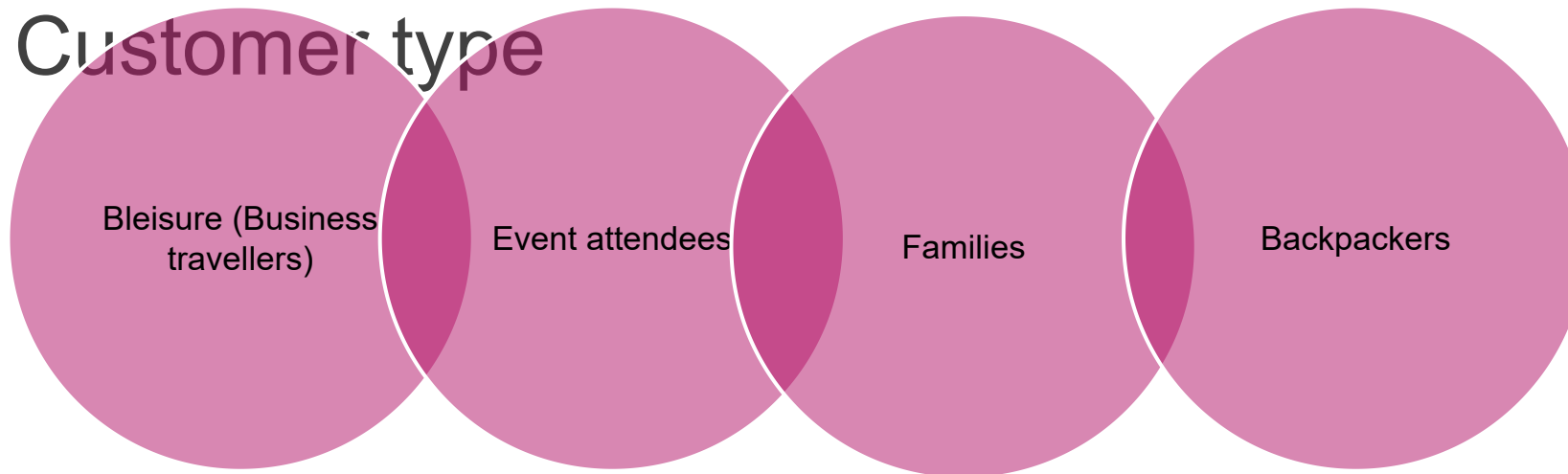- City Hotel
- Resort Hotel

Food
- Refreshment meal
- Veg / Non-veg
- Dinner
- Drinks – Soft &Hard

III. Market Segment.

- In that we have summarize the purpose of booking , it may be official work / corporate and may be picnic / tourism also.

- Timewise analysis – Duration.

- Customer type

Bleisure (Business travellers)

Event attendees

Families

Backpackers
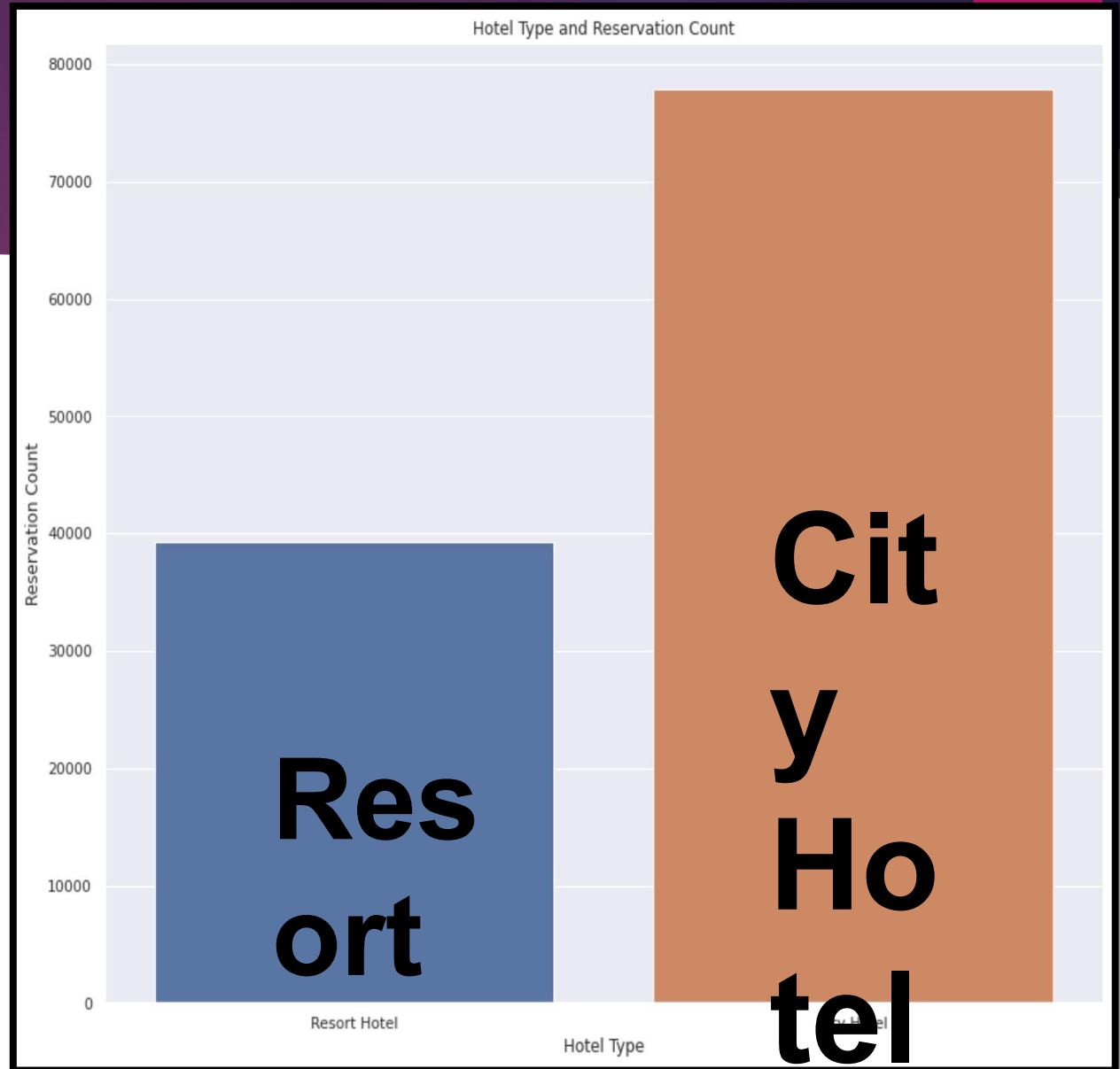
IV. Booking /Cancellations

Booking

- Maximum :- July to August
- Minimum :- November to February

Cancellations

-     **I.** Sudden changes in plan
II.. Minimum work length
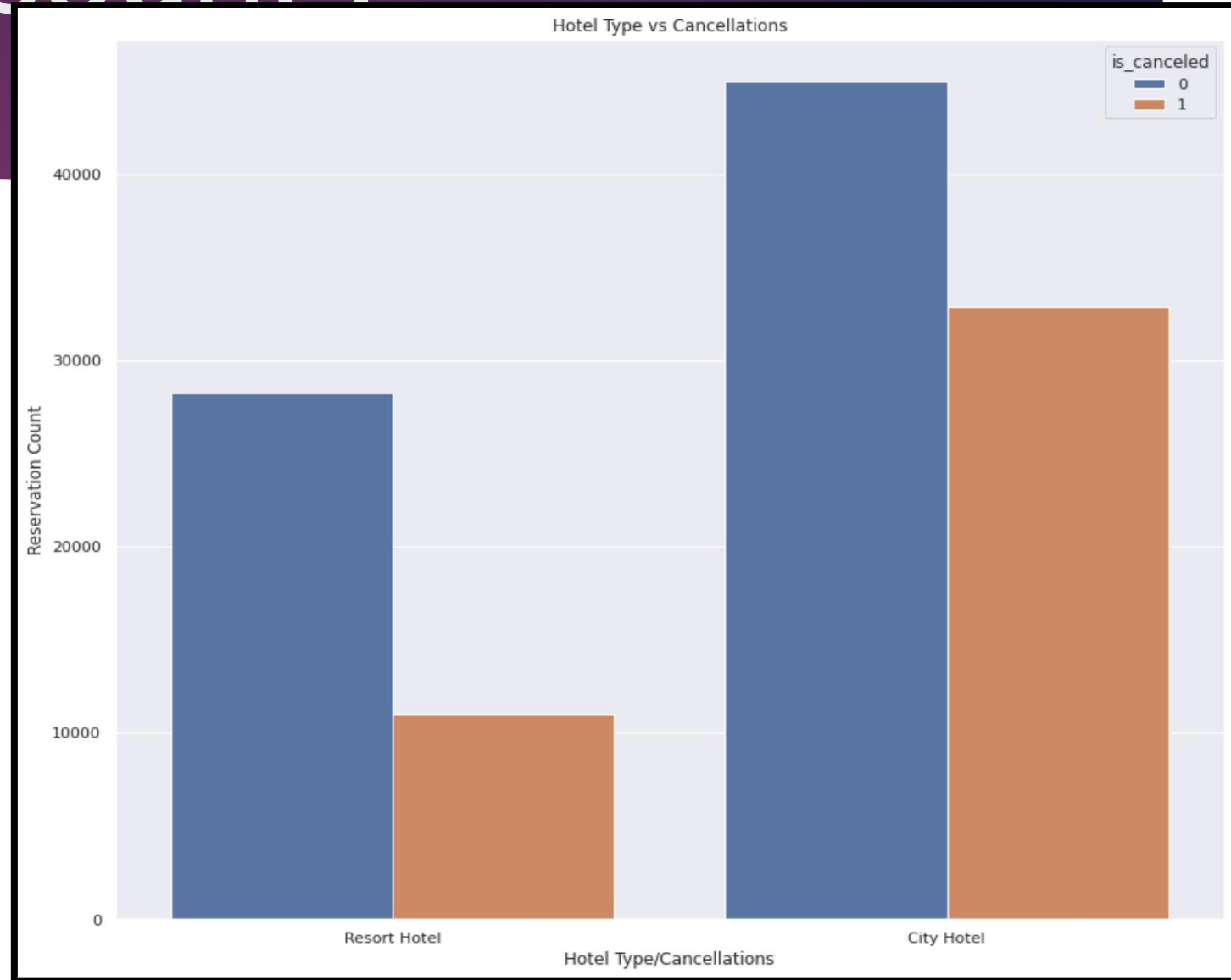-   **III.** Based area / Location
IV. facilities

Reservation count :
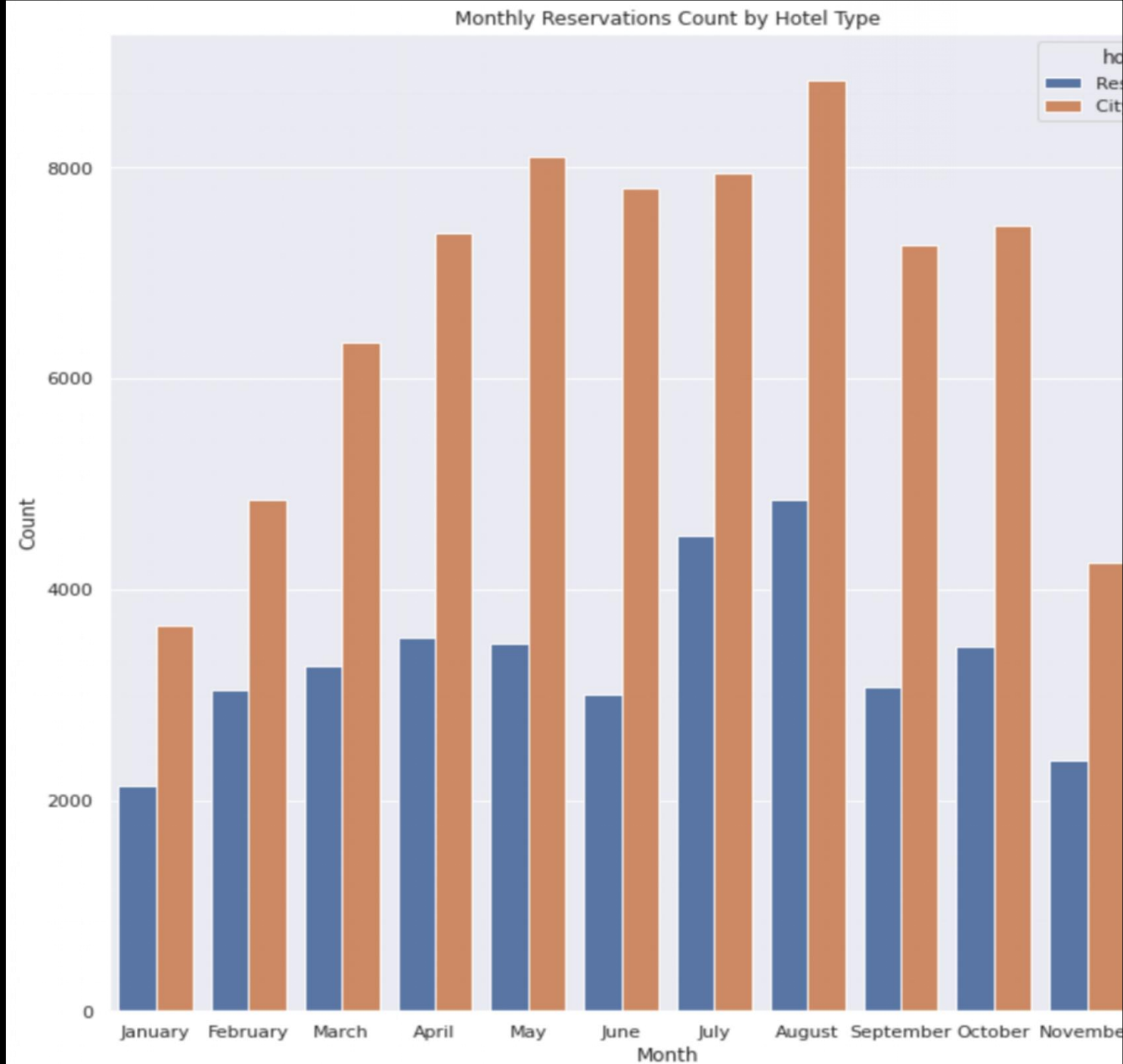
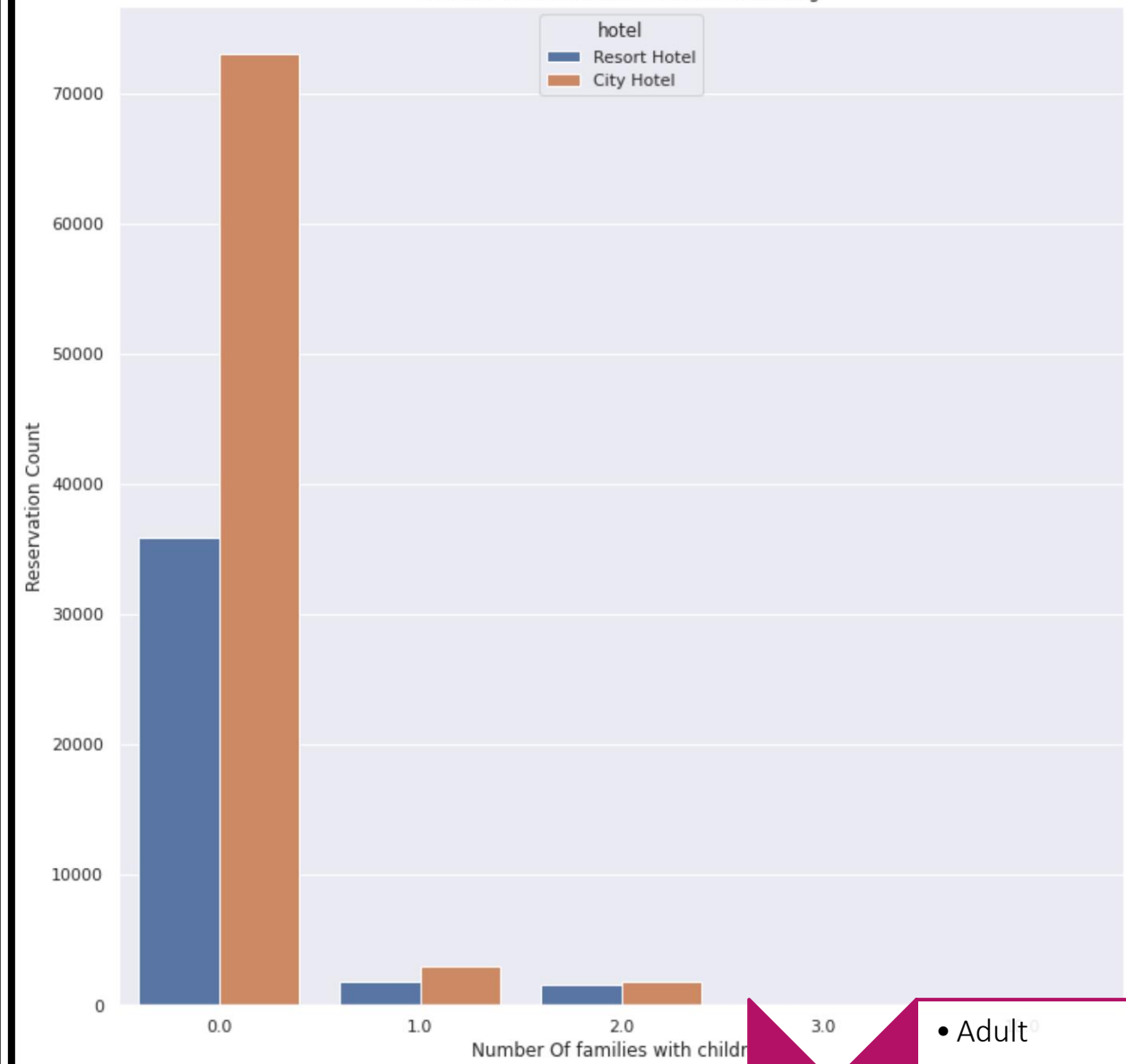ʊ **City hotel has more reservation compared to**

Cancellation count :-

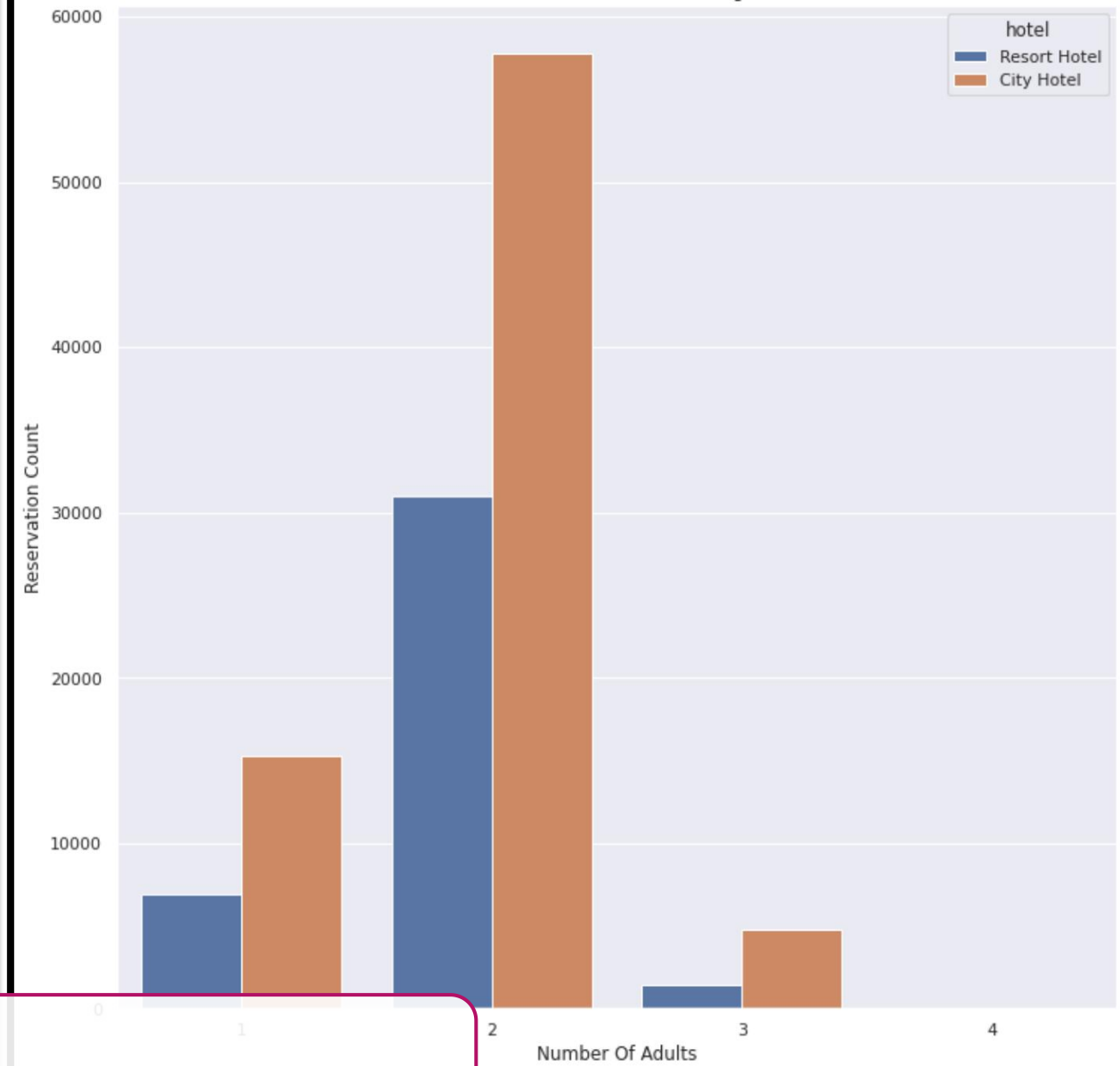City hotel has more cancellations compare to Resort hotel.

Monthly Reservation Count

Monthly Reservations Count by Hotel Type

Number Of families with Children Reserving (left chart)
- Y-axis: Reservation Count
- X-axis: Number Of families with children
- Legend: hotel — Resort Hotel, City Hotel

Number Of Adults Reserving (right chart)
- Y-axis: Reservation Count
- X-axis: Number Of Adults
- Legend: hotel — Resort Hotel, City Hotel

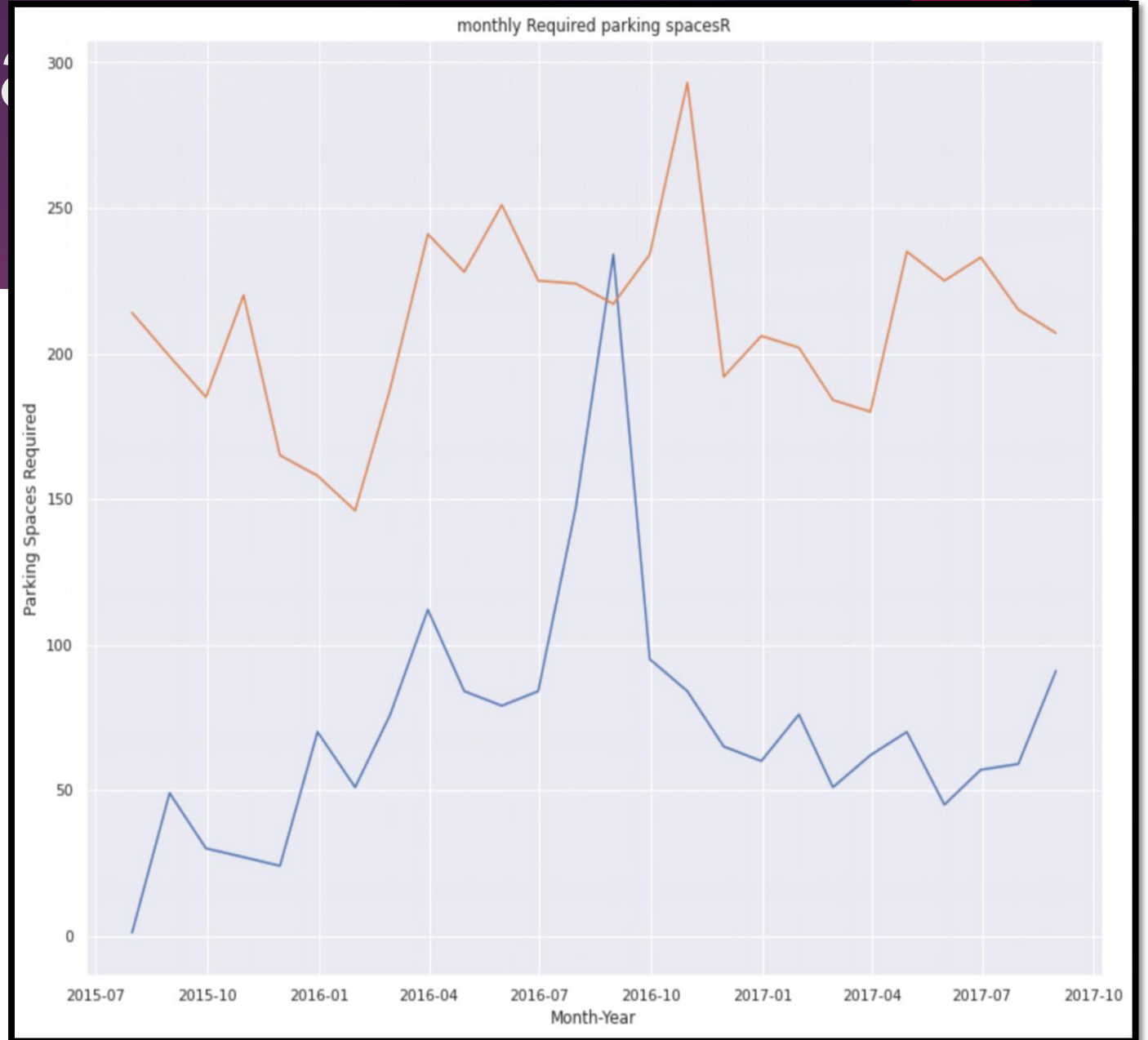Number of
- Adult
- Children
- Families

Month wise customer frequency.

- Resort Hotel have more quantum as a families compared to city hotel.
- wise versa city hotel have more customers/quantum

Number of Guests each month by Hotel Type

Car parking spa

Due to maximum booking
City hotel must have more parking spaces compare to resorts.

monthly Required parking spacesR

Heatmap.

I. Lead time and total stay is similar .

II. Repeated guests are more.

III. Previous booking not cancelled is similar with repeated guests because not more
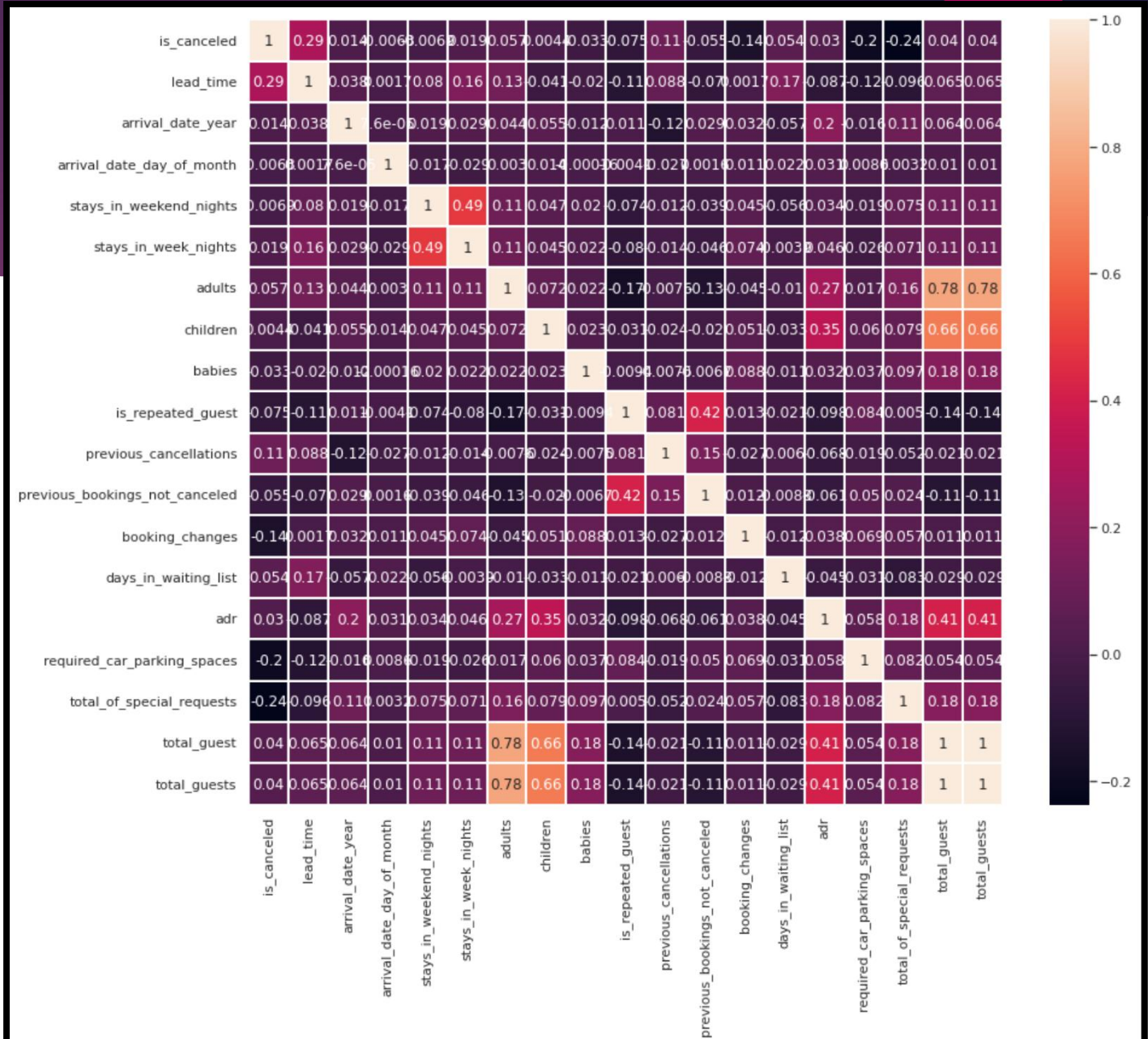
Ⅴ. Challenges.

- Huge chunk of data was to be handled keeping in mind not to miss anything which is even of little relevance.

- Computation time.

- Feature selection quite challenges.

VI . Conclusion

This project contains the data records of city hotel and resort hotel details like booking , cancellations guests details etc. From 2015 to 2017.

1) **City hotel has more reservation** than resort hotel.

2) **City hotel has more**

```
df.info()

<class 'pandas.core.frame.DataFrame':
Int64Index: 117182 entries, 2 to 119
Data columns (total 32 columns):
 #   Column
---  ------
 0   hotel
 1   is_canceled
 2   lead_time
 3   arrival_date_year
 4   arrival_date_month
 5   arrival_date_week_number
 6   arrival_date_day_of_month
 7   stays_in_weekend_nights
 8   stays_in_week_nights
 9   adults
 10  children
 11  babies
 12  meal
 13  country
 14  market_segment
 15  distribution_channel
 16  is_repeated_guest
 17  previous_cancellations
 18  previous_bookings_not_canceled
 19  reserved_room_type
```

Continue....

3) Resort hotels are choice for **large gro ups / families.**

4) City hotel has **more guests in August and resort hotel also** has more guests in August.

5) **High business** - March to October

Continue....

7) More number of people in guests results in more number
of **special requests**.

8) In 2016 city hotel **parking reached 300** and resort hotel has surge parking.

THANK YOU...