Project 2 : Property Listing Analysis

By Sandeep Phatak, Vidyashree CM

1. The hosts who has most number of listing

```
select top 10 h.host_id,h.host_name, count(l.id) count_
from dallas_hosts h inner join dallas_listings l on h.host_id =
l.host_id group by h.host_id, h.host_name order by count_ desc;
```


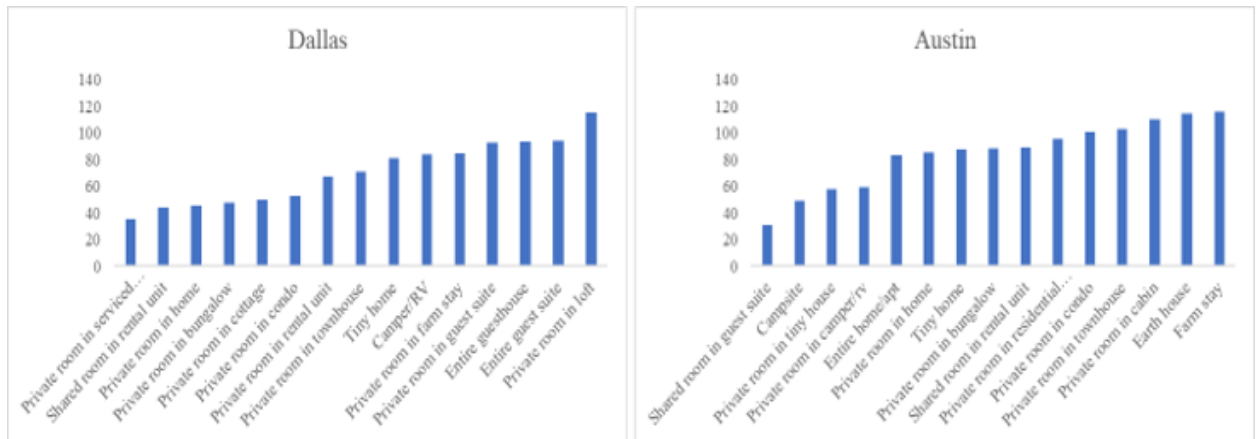2. Price per accomdate for each property type

```
select property_type, avg(price)/ avg(accommodates)
price_per_accomodate
from dallas_listings group by property_type order by
price_per_accomodate desc;
```


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3. Average price of Property Types which are instant bookable and having all ratings above 4.5
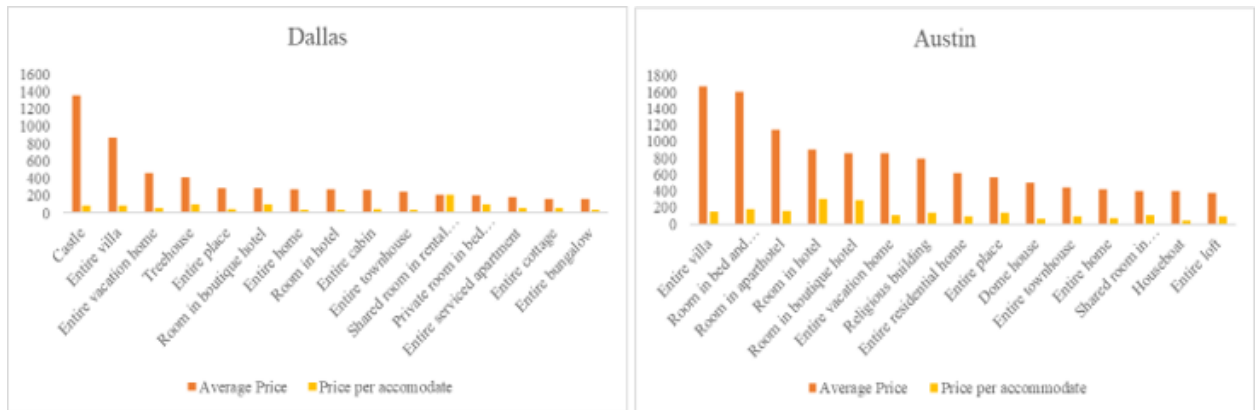
```
select property_type, avg(price) as average_price
from listingD
where instant_bookable like 'true'
group by property_type
having avg(review_scores_rating) >= 4.5
        and avg(review_scores_accuracy) >= 4.5
            and avg(review_scores_checkin) >= 4.5
                and avg(review_scores_cleanliness) >= 4.5
                    and avg(review_scores_accuracy) >= 4.5
                        and avg(review_scores_communication) >= 4.5
                            and avg(review_scores_location) >= 4.5
                                and avg(review_scores_value) >= 4.5
order by average_price;
```


4. Average Price and Price per accommodate for each property type

```
select property_type, avg(price) Average_price,
avg(price)/avg(accommodates) Price_per_accommodate
from listingA group by property_type
order by Average_price desc;
```

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5. Number of listings with instant booking status

```
with cte1 as (select case when instant_bookable= 0 then
'not_instant_bookable'
                else 'instant_bookable' end as booking_type, id
                from dallas_listings)

select booking_type, count(id) num_of_listings from cte1 group by
booking_type order by count(id) desc;
```
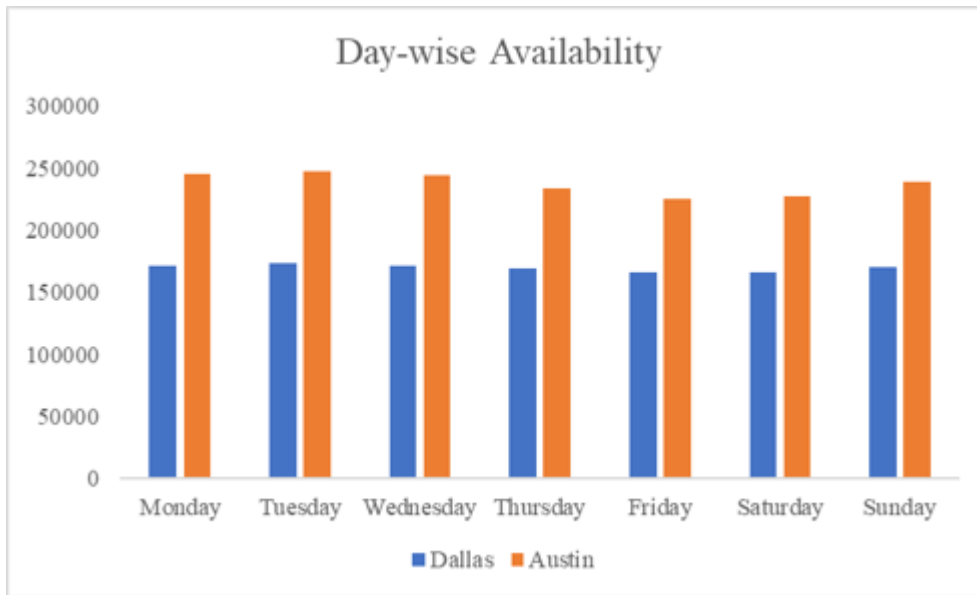

6. Availability of listings day wise

```
select datename(weekday, date) days_of_the_week , count(id)
num_of_available_listings
from dallas_availability where available = 'true'
group by datename(weekday, date) order by
num_of_available_listings desc;
```
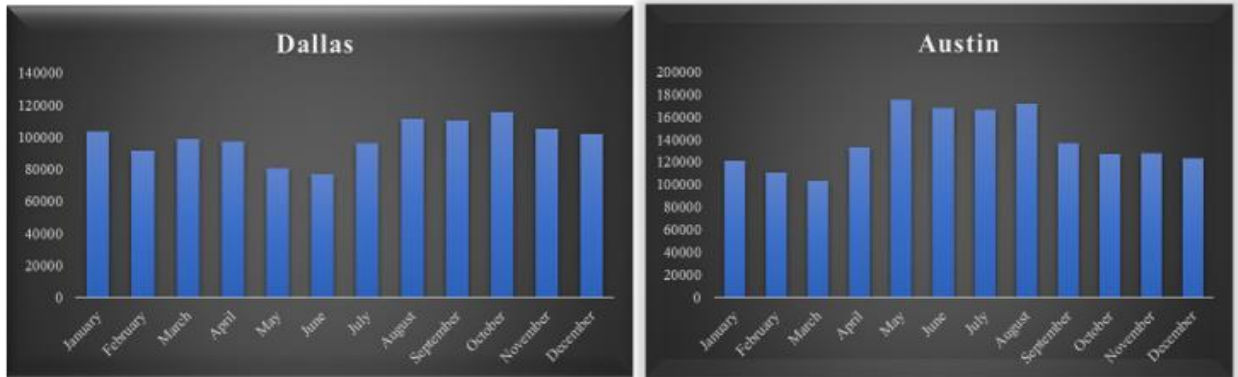

Day-wise Availability

7. Count of listings available month wise

```
select month(date) month_num ,datename(month, date)
month_of_availability, count(listing_id)
count_of_listings_available
from dallas_availability
 where available like 'true'
group by datename(month, date), month(date)
order by month_num
```

8. Property wise percentage of good and bad comments

```
with cte1 as(

select l.property_type , count(r.comments)
number_of_good_comments
from dallas_listings l
inner join dallas_review r on l.id = r.listing_id
where r.comments like '%good%' or r.comments like '%great%' or
r.comments like '%awesome%' or r.comments like '%love%' or
r.comments = '%easy%'or r.comments = '%wonderful%' or r.comments
= '%comfortable%' or r.comments = '%recommended%' group by
l.property_type ),

cte2 as (
select l.property_type , count(r.comments) number_of_bad_comments
from dallas_listings l
inner join dallas_review r on l.id = r.listing_id
where r.comments like '%not%' or r.comments like '%bad%' or
r.comments like '%worst%' or r.comments like '%uncomfortable%' or
r.comments = '%issue%' group by l.property_type ),

cte3 as (
select cte1.*, cte2.number_of_bad_comments,
number_of_bad_comments+ number_of_good_comments
total_number_of_comments from cte1 inner join cte2
on cte1.property_type = cte2.property_type)

select property_type,
number_of_good_comments*100/total_number_of_comments
```
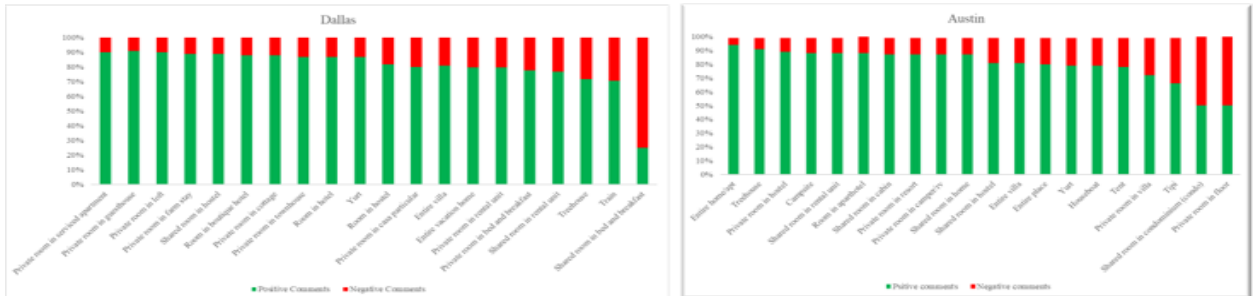
```
Percent_of_good_comments,
number_of_bad_comments*100/total_number_of_comments
percent_of_bad_comments
from cte3 order by Percent_of_good_comments desc;
```


9. Maximum availability month wise for each property type

```
select * from(
select month(a.date) as months_, l.property_type,
datename(month,a.date) month_,count(a.id) as available_listing,
DENSE_RANK() over(partition by l.property_type order by
count(a.id) desc) rank_
from dallas_listings l left join dallas_availability a on l.id =
a.listing_id
where a.available like 'true'
group by month(a.date), l.property_type, datename(month,a.date)
) a
where rank_ = 1
order by months_;
```

10. Property type-wise Host acceptance rate

```
Select l.property_type,avg( h.host_acceptance_rate)
host_acceptance_rate
from  listing_austin l join host_austin h on l.host_id =
h.host_id
Group by l.property_type
Order by host_acceptance_rate desc;
```

11. Instant Bookable listings in each property Type

```
select property_type, count(id) instant_bookables
from listingD
where instant_bookable = 'True'
```

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```
group by property_type
order by instant_bookables desc;
```

Instant Bookings in Dallas

Property Type	Value (approx)
Room in hotel	
Entire guesthouse	
Entire loft	
Shared room in home	
Entire townhouse	
Private room in home	
Entire condo	
Entire serviced apartment	
Entire home	
Entire rental unit	

0   500   1000   1500   2000

Instant Bookings in Austin

Property Type	Value (approx)
Entire guest suite	
Private room in home	
Entire townhouse	
Entire home	
Entire guesthouse	
Private room in residential...	
Entire serviced apartment	
Entire condominium (condo)	
Entire rental unit	
Entire residential home	

0   500   1000   1500

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