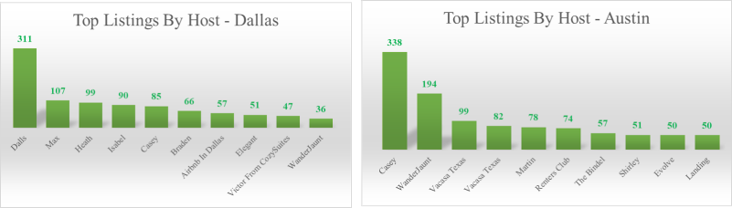
Project 2 : Property Listing Analysis

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\_

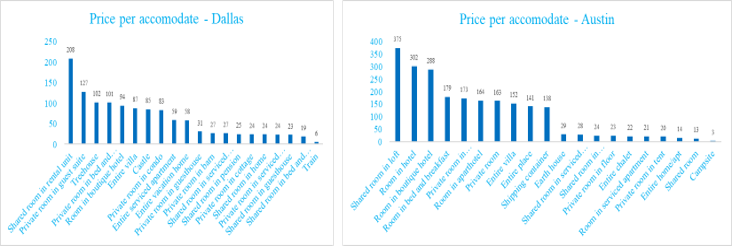
from dallas\_hosts h inner join dallas\_listings l on h.host\_id = l.host\_id group by h.host\_id, h.host\_name order by count\_ desc;



1. Price per accomdate for each property type

select property\_type, avg(price)/ avg(accommodates) price\_per\_accomodate

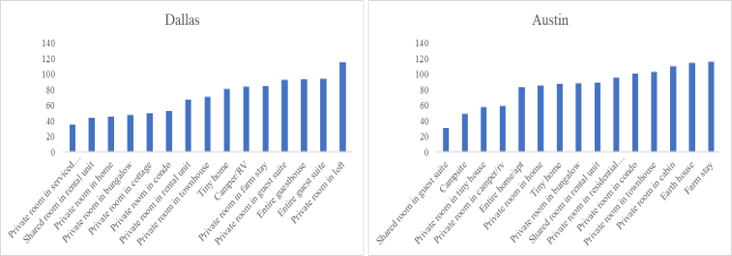
from dallas\_listings group by property\_type order by price\_per\_accomodate desc;



1. Average price of Property Types which are instant bookable and having all ratings above 4.5

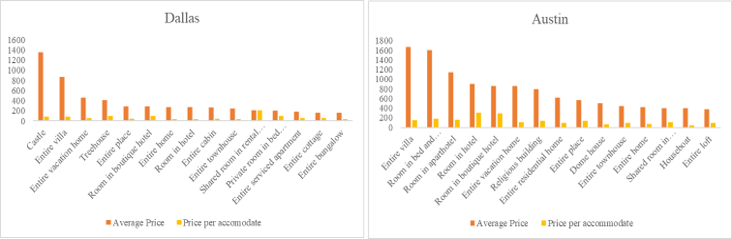
select property\_type, avg(price) as average\_price  
from listingD  
where instant\_bookable like 'true'  
group by property\_type  
having avg(review\_scores\_rating) >= 4.5   
 and avg(review\_scores\_accuracy) >= 4.5  
 and avg(review\_scores\_checkin) >= 4.5  
 and avg(review\_scores\_cleanliness) >= 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;



1. 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;



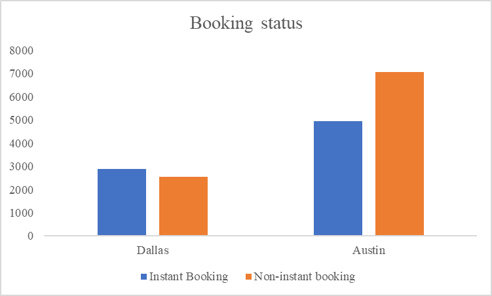
1. Number of listings with instant booking status

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;

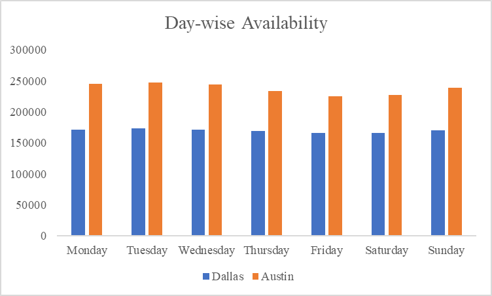


1. Availability of listings day wise

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;



1. Count of listings available month wise

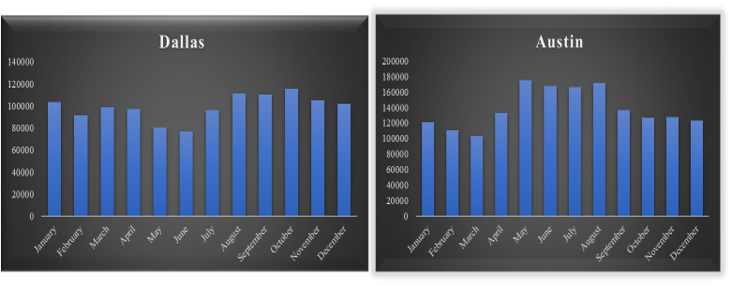
select month(date) month\_num ,datename(month, date) month\_of\_availability, count(listing\_id) count\_of\_listings\_available

from dallas\_availability

where available like 'true'

group by datename(month, date), month(date)

order by month\_num



1. 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 ),

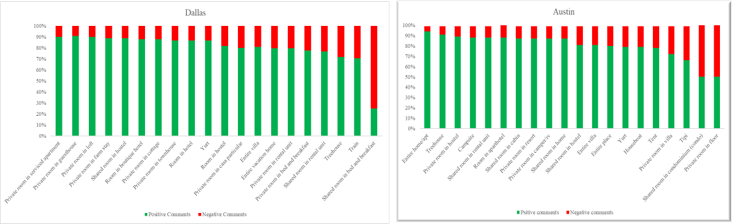
cte3 as (

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;



1. 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\_;

1. 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;

1. Instant Bookable listings in each property Type

select property\_type, count(id) instant\_bookables  
from listingD  
where instant\_bookable = 'True'  
group by property\_type  
order by instant\_bookables desc;