--1

--For Austin

-- to find the average of acceptance rate, response rate, host has profile pic and host identity verified of Host and super host in Austin

Select host\_is\_superhost, Round((AVG(host\_acceptance\_rate)),2) as AVG\_of\_AcceptanceRate, Round((AVG(host\_response\_rate)),2) as AVG\_of\_ResponseRate,

count(case when host\_has\_profile\_pic=1 then 1 end) as CNT\_of\_Host\_has\_Profile\_Pic,

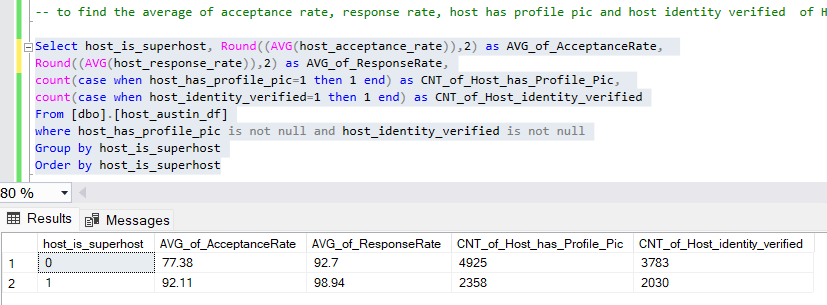
count(case when host\_identity\_verified=1 then 1 end) as CNT\_of\_Host\_identity\_verified

From [dbo].[host\_austin\_df]

where host\_has\_profile\_pic is not null and host\_identity\_verified is not null

Group by host\_is\_superhost

Order by host\_is\_superhost



--to find the count of Instant booking and review scores values in Austin based on host and super host

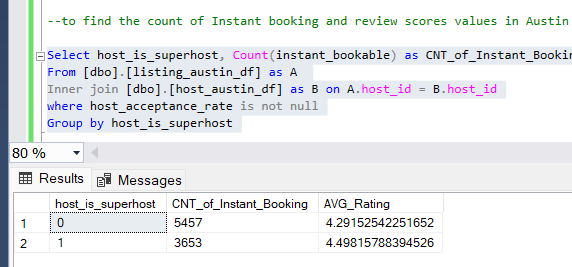
Select host\_is\_superhost, Count(instant\_bookable) as CNT\_of\_Instant\_Booking , AVG(Distinct review\_scores\_value) as AVG\_Rating

From [dbo].[listing\_austin\_df] as A

Inner join [dbo].[host\_austin\_df] as B on A.host\_id = B.host\_id

where host\_acceptance\_rate is not null

Group by host\_is\_superhost



--to find the number of bookings per month

Select host\_is\_superhost , Month(date) as Month,

Count(Date)/30 as Average\_Bookings

from [dbo].[host\_austin\_df] as A

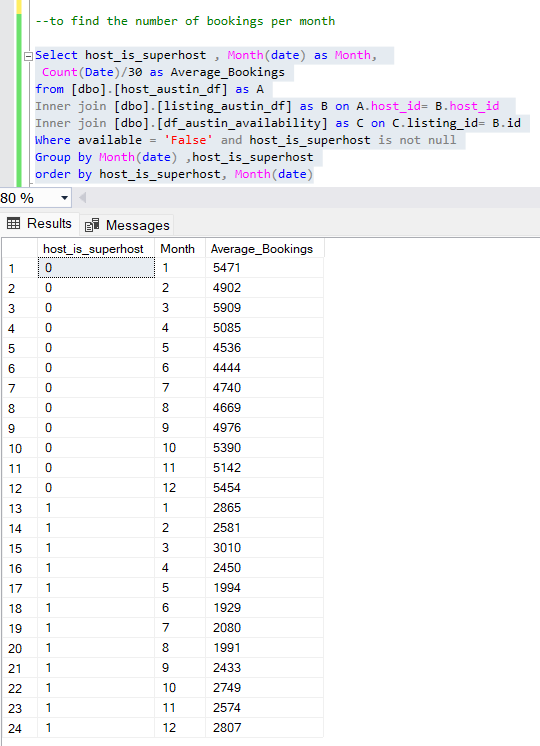
Inner join [dbo].[listing\_austin\_df] as B on A.host\_id= B.host\_id

Inner join [dbo].[df\_austin\_availability] as C on C.listing\_id= B.id

Where available = 'False' and host\_is\_superhost is not null

Group by Month(date) ,host\_is\_superhost

order by host\_is\_superhost, Month(date)



-- for Dallas

-- to find the average of acceptance rate, response rate, host has profile pic and host identity verified of Host and super host in Dallas

Select host\_is\_superhost, Round((AVG(host\_acceptance\_rate)),2) as AVG\_of\_AcceptanceRate, Round((AVG(host\_response\_rate)),2) as AVG\_of\_ResponseRate,

count(case when host\_has\_profile\_pic=1 then 1 end) as CNT\_of\_Host\_has\_Profile\_Pic,

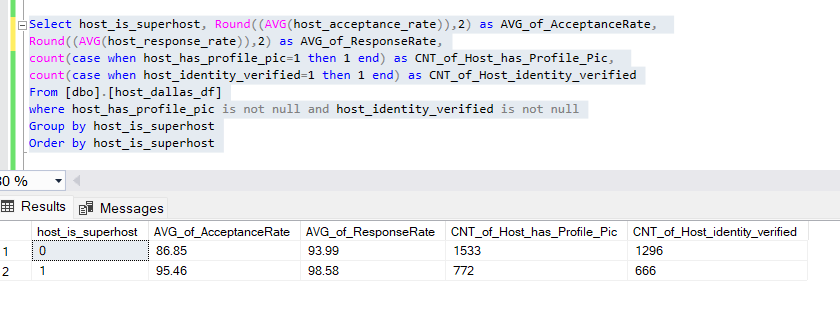
count(case when host\_identity\_verified=1 then 1 end) as CNT\_of\_Host\_identity\_verified

From [dbo].[host\_dallas\_df]

where host\_has\_profile\_pic is not null and host\_identity\_verified is not null

Group by host\_is\_superhost

Order by host\_is\_superhost



--to find the count of Instant booking and review scores values in Austin based on host and super host in Dallas

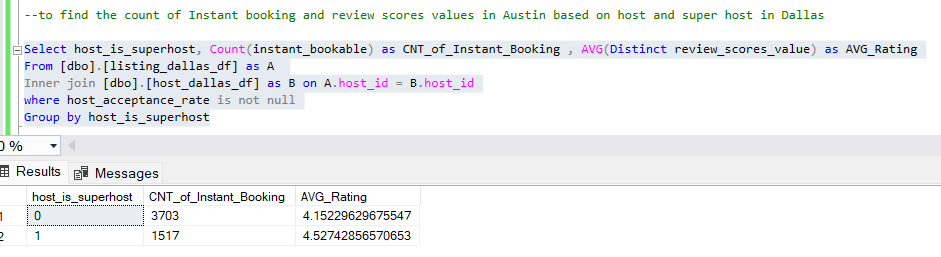
Select host\_is\_superhost, Count(instant\_bookable) as CNT\_of\_Instant\_Booking , AVG(Distinct review\_scores\_value) as AVG\_Rating

From [dbo].[listing\_dallas\_df] as A

Inner join [dbo].[host\_dallas\_df] as B on A.host\_id = B.host\_id

where host\_acceptance\_rate is not null

Group by host\_is\_superhost



--to find the number of bookings per month in Dallas

Select host\_is\_superhost , Month(date) as Month,

Count (Date)/30 as Average\_Bookings

from [dbo].[host\_dallas\_df] as A

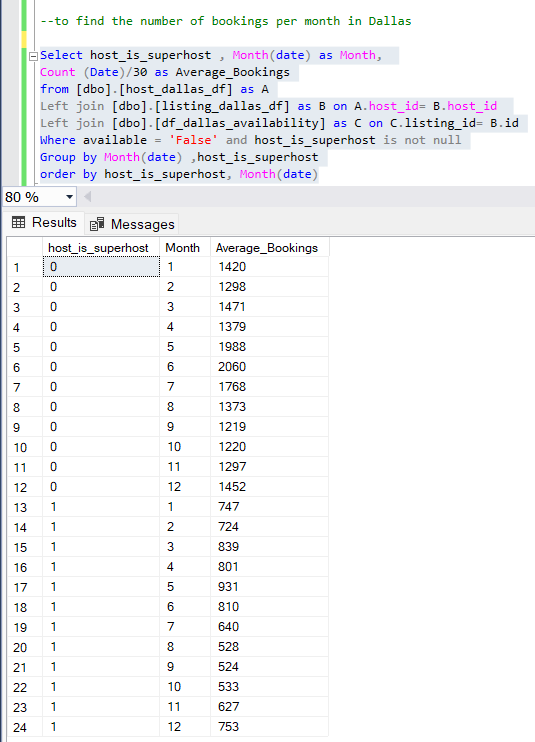
Left join [dbo].[listing\_dallas\_df] as B on A.host\_id= B.host\_id

Left join [dbo].[df\_dallas\_availability] as C on C.listing\_id= B.id

Where available = 'False' and host\_is\_superhost is not null

Group by Month(date) ,host\_is\_superhost

order by host\_is\_superhost, Month(date)



--2

--For Austin

--to find the find the criteria to become super host and the average of them in Ausitn

Select host\_is\_superhost, Round((AVG(host\_acceptance\_rate)),2) as AVG\_of\_AcceptanceRate, Round((AVG(host\_response\_rate)),2) as AVG\_of\_ResponseRate,

AVG(review\_scores\_value) as AVG\_Rating

From [dbo].[host\_austin\_df] As A

Inner join [dbo].[listing\_austin\_df] as B on A.host\_id= B.host\_id

where host\_acceptance\_rate is not null

Group by host\_is\_superhost

order by host\_is\_superhost desc;

--For Dallas

----to find the find the criteria to become super host and the average of them in Dallas

Select host\_is\_superhost, Round((AVG(host\_acceptance\_rate)),2) as AVG\_of\_AcceptanceRate, Round((AVG(host\_response\_rate)),2) as AVG\_of\_ResponseRate,

AVG(review\_scores\_value) as AVG\_Rating

From [dbo].[host\_dallas\_df] As A

Inner join [dbo].[listing\_dallas\_df] as B on A.host\_id= B.host\_id

where host\_acceptance\_rate is not null

Group by host\_is\_superhost

order by host\_is\_superhost desc;

--To become superhost AVG acceptance rate should be > 91%

--To become superhost AVG response rate should be > 98%

--To become superhost AVG rating should be > 4.81

--3

--Analysing comments for austin

Select host\_is\_superhost ,

Sum(Case when comments like '%recommended%' Then 1 End) as recommended,

Sum(Case when comments like '%gracious%' Then 1 End) as gracious,

Sum(Case when comments like '%wonderful%' Then 1 End) as wonderful,

Sum(Case when comments like '%beautiful%' Then 1 End )as Beautiful,

Sum(Case when comments like '%great%' Then 1 End) as Great,

Sum(Case when comments like '%Comfortable%' Then 1 End) as Comfortable,

Sum(Case when comments like '%Convenient%' Then 1 End) as Convenient,

Sum(Case when comments like '%Available%' Then 1 End) as Available,

Sum(Case when comments like '%Friendly%' Then 1 End) as Friendly,

Sum(Case when comments like '%Poor%' Then 1 End) as Poor

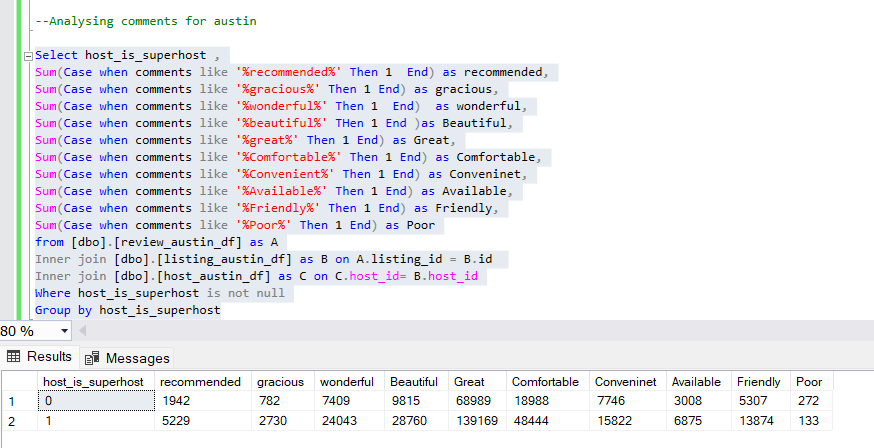
from [dbo].[review\_austin\_df] as A

Inner join [dbo].[listing\_austin\_df] as B on A.listing\_id = B.id

Inner join [dbo].[host\_austin\_df] as C on C.host\_id= B.host\_id

Where host\_is\_superhost is not null

Group by host\_is\_superhost



--Analysing comments for Dallas

Select host\_is\_superhost ,

Sum(Case when comments like '%recommended%' Then 1 End) as recommended,

Sum(Case when comments like '%gracious%' Then 1 End) as gracious,

Sum(Case when comments like '%wonderful%' Then 1 End) as wonderful,

Sum(Case when comments like '%beautiful%' THen 1 End )as Beautiful,

Sum(Case when comments like '%great%' Then 1 End) as Great,

Sum(Case when comments like '%Comfortable%' Then 1 End) as Comfortable,

Sum(Case when comments like '%Convenient%' Then 1 End) as Conveninet,

Sum(Case when comments like '%Available%' Then 1 End) as Available,

Sum(Case when comments like '%Friendly%' Then 1 End) as Friendly,

Sum(Case when comments like '%Poor%' Then 1 End) as Poor

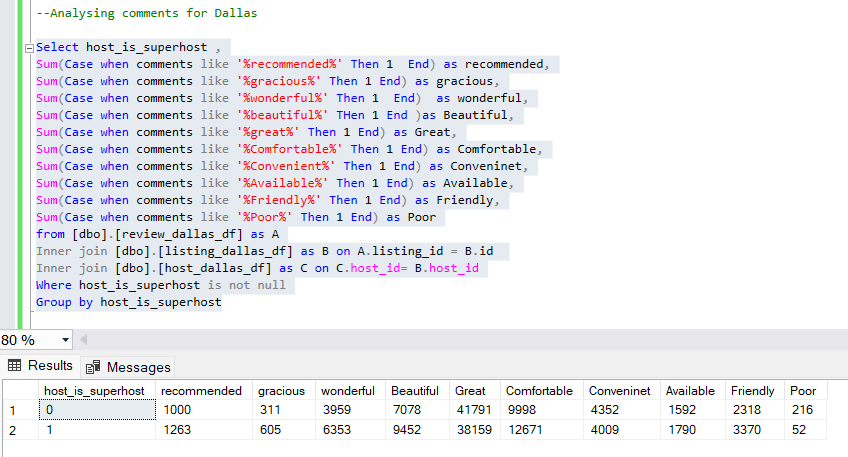
from [dbo].[review\_dallas\_df] as A

Inner join [dbo].[listing\_dallas\_df] as B on A.listing\_id = B.id

Inner join [dbo].[host\_dallas\_df] as C on C.host\_id= B.host\_id

Where host\_is\_superhost is not null

Group by host\_is\_superhost



-- 4

--For Austin

--To find super hosts tends to have large property types as compared to other hosts in Austin

Select host\_is\_superhost,

Sum(Case when property\_type like 'Entire guesthouse%' Then 1 End ) as Entire\_guesthouse\_accomodations,

Sum(Case when property\_type like 'Entire townhouse%' Then 1 End ) as Entire\_townhouse\_accomodations,

Sum(Case when property\_type like 'Entire home%' Then 1 End ) as Entire\_home\_accomodations,

Sum(Case when property\_type like 'Entire residential home%' Then 1 End ) as Entire\_residential\_home\_accomodations,

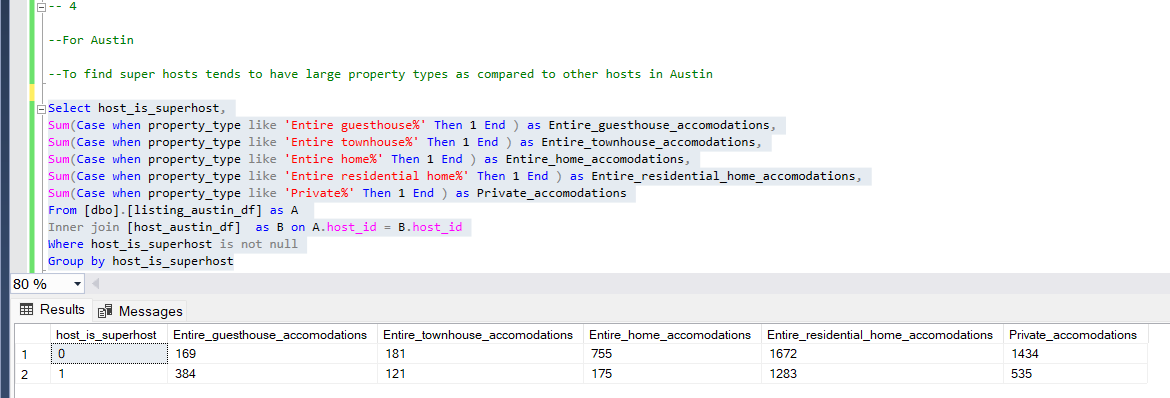
Sum(Case when property\_type like 'Private%' Then 1 End ) as Private\_accomodations

From [dbo].[listing\_austin\_df] as A

Inner join [host\_austin\_df] as B on A.host\_id = B.host\_id

Where host\_is\_superhost is not null

Group by host\_is\_superhost



--For Dallas

--To find super hosts tends to have large property types as compared to other hosts in Dallas

Select host\_is\_superhost,

Sum(Case when property\_type like 'Entire guesthouse%' Then 1 End ) as Entire\_guesthouse\_accomodations,

Sum(Case when property\_type like 'Entire townhouse%' Then 1 End ) as Entire\_townhouse\_accomodations,

Sum(Case when property\_type like 'Entire home%' Then 1 End ) as Entire\_home\_accomodations,

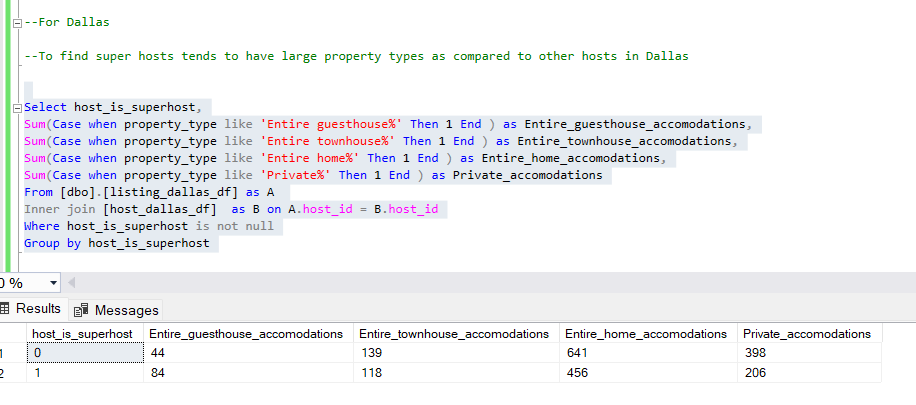
Sum(Case when property\_type like 'Private%' Then 1 End ) as Private\_accomodations

From [dbo].[listing\_dallas\_df] as A

Inner join [host\_dallas\_df] as B on A.host\_id = B.host\_id

Where host\_is\_superhost is not null

Group by host\_is\_superhost



--5

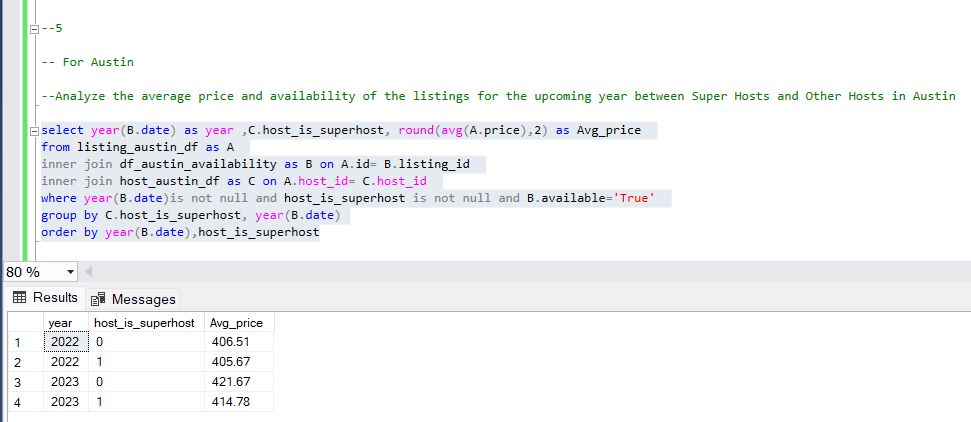
-- For Austin

--Analyze the average price and availability of the listings for the upcoming year between Super Hosts and Other Hosts in Austin

select year(B.date) as year ,C.host\_is\_superhost, round(avg(A.price),2) as Avg\_price from listing\_austin\_df as A inner join df\_austin\_availability as B on A.id= B.listing\_id inner join host\_austin\_df as C on A.host\_id= C.host\_id where year(B.date)is not null and host\_is\_superhost is not null and B.available='True'

group by C.host\_is\_superhost, year(B.date)

order by year(B.date),host\_is\_superhost



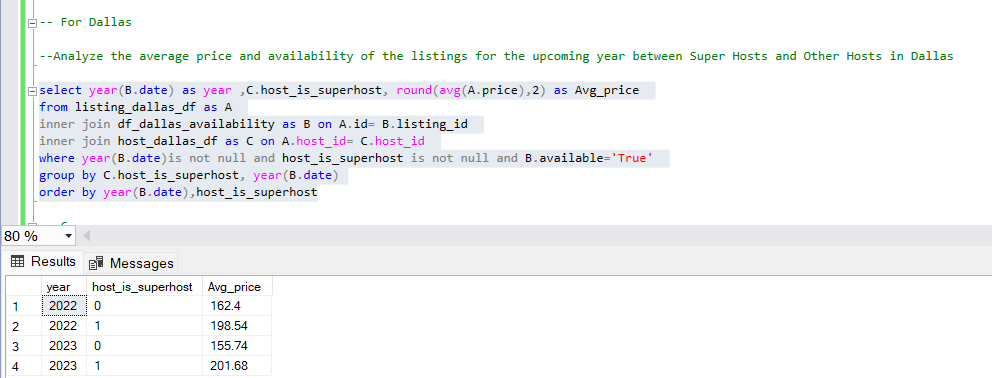
-- For Dallas

--Analyze the average price and availability of the listings for the upcoming year between Super Hosts and Other Hosts in Dallas

select year(B.date) as year ,C.host\_is\_superhost, round(avg(A.price),2) as Avg\_price from listing\_dallas\_df as A inner join df\_dallas\_availability as B on A.id= B.listing\_id inner join host\_dallas\_df as C on A.host\_id= C.host\_id where year(B.date)is not null and host\_is\_superhost is not null and B.available='True'

group by C.host\_is\_superhost, year(B.date)

order by year(B.date),host\_is\_superhost



-- 6

--For Austin

--Analyze if there is some difference in above mentioned trends between Local Hosts or Hosts residing in other locations (in Austin)

--a

Select Case when host\_location like 'Austin%' Then 'Local\_Host' Else 'Foreign\_Host' End as Host\_Location1,

Round((AVG(host\_acceptance\_rate)),2) as AVG\_of\_AcceptanceRate, Round((AVG(host\_response\_rate)),2) as AVG\_of\_ResponseRate,

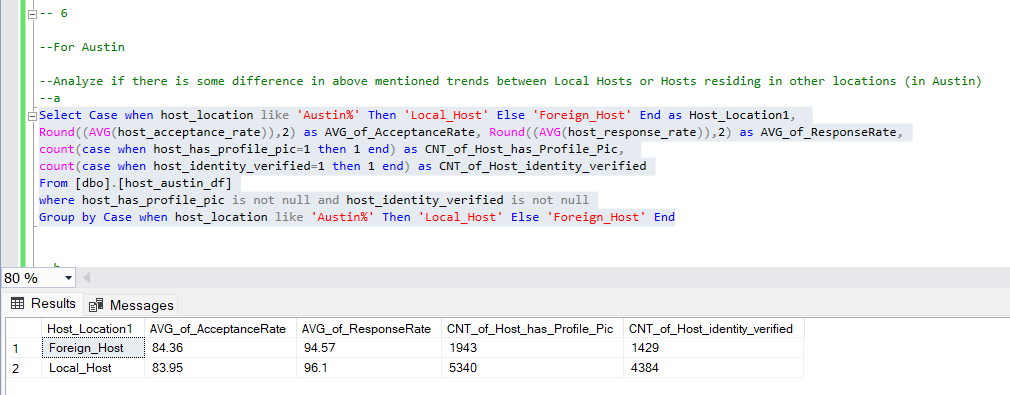
count(case when host\_has\_profile\_pic=1 then 1 end) as CNT\_of\_Host\_has\_Profile\_Pic,

count(case when host\_identity\_verified=1 then 1 end) as CNT\_of\_Host\_identity\_verified

From [dbo].[host\_austin\_df]

where host\_has\_profile\_pic is not null and host\_identity\_verified is not null

Group by Case when host\_location like 'Austin%' Then 'Local\_Host' Else 'Foreign\_Host' End



--b

Select Case when host\_location like 'Austin%' Then 'Local\_Host' Else 'Foreign\_Host' End as Host\_Location1,

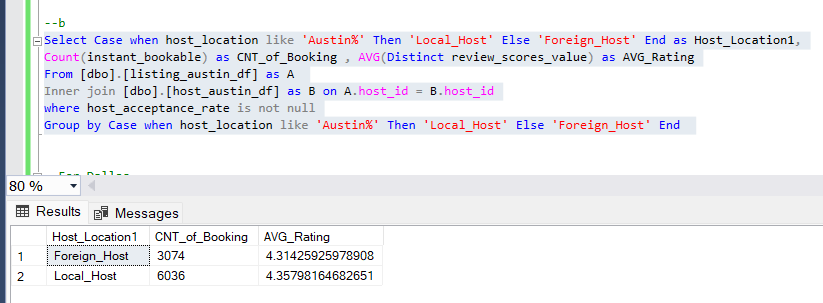
Count(instant\_bookable) as CNT\_of\_Booking , AVG(Distinct review\_scores\_value) as AVG\_Rating

From [dbo].[listing\_austin\_df] as A

Inner join [dbo].[host\_austin\_df] as B on A.host\_id = B.host\_id

where host\_acceptance\_rate is not null

Group by Case when host\_location like 'Austin%' Then 'Local\_Host' Else 'Foreign\_Host' End



--For Dallas

--Analyze if there is some difference in above mentioned trends between Local Hosts or Hosts residing in other locations (in Dallas)

--a

Select Case when host\_location like 'Dallas%' Then 'Local\_Host' Else 'Foreign\_Host' End as Host\_Location1,

Round((AVG(host\_acceptance\_rate)),2) as AVG\_of\_AcceptanceRate, Round((AVG(host\_response\_rate)),2) as AVG\_of\_ResponseRate,

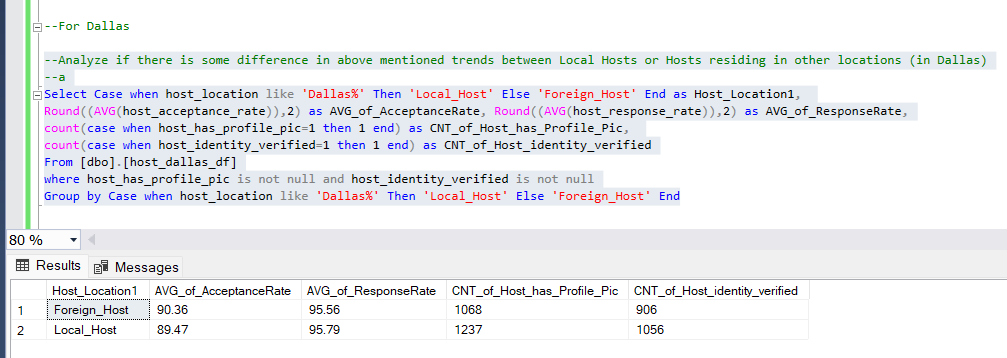
count(case when host\_has\_profile\_pic=1 then 1 end) as CNT\_of\_Host\_has\_Profile\_Pic,

count(case when host\_identity\_verified=1 then 1 end) as CNT\_of\_Host\_identity\_verified

From [dbo].[host\_dallas\_df]

where host\_has\_profile\_pic is not null and host\_identity\_verified is not null

Group by Case when host\_location like 'Dallas%' Then 'Local\_Host' Else 'Foreign\_Host' End



--b

Select Case when host\_location like 'Dallas%' Then 'Local\_Host' Else 'Foreign\_Host' End as Host\_Location1,

Count(instant\_bookable) as CNT\_of\_Booking , AVG(Distinct review\_scores\_value) as AVG\_Rating

From [dbo].[listing\_dallas\_df] as A

Inner join [dbo].[host\_dallas\_df] as B on A.host\_id = B.host\_id

where host\_acceptance\_rate is not null

Group by Case when host\_location like 'Dallas%' Then 'Local\_Host' Else 'Foreign\_Host' End

