## **ROME**

```
Total No. of Host and Superhost - select case when host_is_superhost = 0 then 'Host'
            when host_is_superhost = 1 then 'SuperHost' end as
host Superhost, No Of Host from (
select host is superhost,count(*) as No OF Host from dbo.host rome df where
host is superhost = 0 or host is superhost =1 group by host is superhost ) c
Response Rate - select case when host_is_superhost = 0 then 'Host'
            when host is superhost = 1 then 'SuperHost' end as
host Superhost, AvgResponseRate, MinResponseRate, MaxResponseRate from (
select host_is_superhost,avg(host_response_rate) as AvgResponseRate, min
(host_response_rate) as MinResponseRate , max(host_response_rate) as maxResponseRate
from dbo.host_rome_df where host_is_superhost = 1 and host_response_rate !=0 or
host_is_superhost = 0 and host_response_rate!=0 group by host_is_superhost) c
No of host having response rate > avg(response rate)-
select case when host is superhost = 0 then 'Host'
            when host is superhost = 1 then 'SuperHost' end as
host_Superhost,No_Of_Host from(
select host_is_superhost,count(host_id) as No_OF_Host from dbo.host_rome_df
                                                                                   where
host_response_rate > (
select avg(host_response_rate) as Avg_Response_rate from dbo.host_rome_df) group by
host is superhost)c
Listing Count - select case when host is superhost = 0 then 'Host'
            when host is superhost = 1 then 'SuperHost' end as
host_Superhost,AvgListingCount,MinListingCount,MaxListingCount from (
select host is superhost,avg(host listings count) as AvgListingCount, min
(host\_listings\_count) \ \ \text{as} \ \ \text{MinListingCount} \ \ , \ \ \text{max}(host\_listings\_count) \ \ \text{as} \ \ \text{MaxListingCount}
from dbo.host rome df where host is superhost = 1 or host is superhost = 0 group by
host is superhost) cc.
Listing Count > Avg. listing count
select case when host_is_superhost = 0 then 'Host'
            when host_is_superhost = 1 then 'SuperHost' end as
host Superhost, No Of Host from(
select host_is_superhost,count(host_id) as No_OF_Host from dbo.host_rome_df
                                                                                   where
host_listings_count > (
select avg(host_listings_count) as Avg_Listing_rate from dbo.host_rome_df) group by
host_is superhost)c
Response Time -
select case when host_is_superhost = 0 then 'Host'
            when host_is_superhost = 1 then 'SuperHost' end as
host Superhost, host response time, TotalHost from (
```

```
select host_is_superhost,host_response_time,count(host_id) as TotalHost from
dbo.host rome df where host is superhost =0 and host response time is not null or
host_is_superhost =1 and host_response_time is not null group by
host_is_superhost,host_response_time ) ccc order by host_Superhost
Acceptance Rate - select case when host_is_superhost = 0 then 'Host'
           when host_is_superhost = 1 then 'SuperHost' end as
host_Superhost,AvgAcceptanceRate,MinAcceptanceRate,MaxAcceptanceRate from (
select host_is_superhost,avg(host_acceptance_rate) as AvgAcceptanceRate, min
(host_acceptance_rate) as MinAcceptanceRate , max(host_acceptance_rate) as
MaxAcceptanceRate from dbo.host_rome_df where host_is_superhost = 1 or
host_is_superhost = 0 group by host_is_superhost) c
No of host having acceptance rate > avg(acceptance rate)-
select case when host is superhost = 0 then 'Host'
           when host is superhost = 1 then 'SuperHost' end as
host Superhost, No Of Host from(
select host is superhost,count(host id) as No OF Host from dbo.host rome df
                                                                                where
host acceptance rate > (
select avg(host_acceptance_rate) as Avg_Acceptance_rate from dbo.host_rome_df) group
by host is superhost)c
profile Pic-
select case when host_is_superhost = 0 then 'Host'
           when host_is_superhost = 1 then 'SuperHost' end as
host_Superhost,host_has_profile_pic,TotalHost from (
select host_is_superhost,host_has_profile_pic,count(host_id) as TotalHost from
dbo.host_rome_df where host_is_superhost =0 and host_has_profile_pic is not null or
host is superhost =1 and host has profile pic is not null group by
host is superhost, host has profile pic ) ccc order by host Superhost
Identity Verified -
select case when host_is_superhost = 0 then 'Host'
           when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,
                    case when host_identity_verified = 0 then 'NO'
                    when host_identity_verified = 1 then 'YES'end as
host identity verified, TotalHost from (
select host_is_superhost,host_identity_verified,count(host_id) as TotalHost from
dbo.host rome df where host is superhost =0 and host identity verified is not null or
host_is_superhost =1 and host_identity_verified is not null group by
host_is_superhost,host_identity_verified ) ccc order by host_Superhost
```

#### Comments -

```
select q.hosts,Avg(count_comments) as avg_comments from (select
h.host_id,h.host_is_superhost as hosts,count(r.comments) as count_comments from
host_rome_df h join listing_rome_df l on l.host_id = h.host_id
join review_rome_df r on r.listing_id = l.id
join df_rome_availability a on a.listing_id = l.id
group by h.host_id,h.host_is_superhost) q
where q.hosts is not null
group by q.hosts
```

#### Avg. Monthly Booking-

#### Instant Booking -

## Review -

select avg(a.review\_scores\_rating) as review\_scores\_rating , avg( ,b.host\_is\_superhost from dbo.listing\_rome\_df a inner join dbo.host\_rome\_df b on a.host\_id = b.host\_id where a.review\_scores\_rating!=0 and b.host\_is\_superhost=0 or a.review\_scores\_rating!=0 and b.host\_is\_superhost

```
Q2. Crucial Points - -----

Response Rate

Response Time

Aceeptance rate

Identity Verified
```

```
Q3. select case when host_is_superhost = 0 then 'Host'
            when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,
No of Positive_comment from(
select host_is_superhost,sum(case when
                                comments like '%great%' or comments like '%nice%' or
comments like '%wonderful%' or comments like '%brilliant%'or
                                                       comments like '%great
location%' or comments like '%good%' or comments like '%lovely%' or comments like
'%friendly%'or
                                                       comments like '%perfect%' or
comments like '%beautiful%' or comments like '%definetly stay%' or comments like
'%excellent%'
                                                       or comments like '%highly
recommended%'
                                                       then 1 else 0 end) as
No of Positive comment from (
select a.comments,c.host is superhost from dbo.review rome df a
inner join dbo.listing rome df b on a.listing id=b.id
inner join dbo.host rome df c on b.host id = c.host id)dd where host is superhost=0 or
host is superhost=1 group by host is superhost)ee
Q4. Large property Type
select case when host_is_superhost = 0 then 'Host'
            when host is superhost = 1 then 'SuperHost' end as
host Superhost, No Of property from (
select host_is_superhost , count(property_type) as No_Of_Property from (select
a.property_type,b.host_is_superhost from dbo.listing_rome_df a inner join
dbo.host_rome_df b on a.host_id=b.host_id where a.property_type like '%entire%' or
a.property_type like '%RV%' or a.property_type like '%castle%' or a.property_type like
'%houseboat%' or a.property_type like '%boat%' or a.property_type like '%holiday
park%')c where host is superhost=0 or host is superhost=1 group by host is superhost
) cc
Q5. Avg Price -
      select case when host_is_superhost = 0 then 'Host'
            when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,
Avg Price from(
select host_is_superhost,avg(avg_price_host) as Avg_Price from (
SELECT DISTINCT A.HOST_ID,a.host_is_superhost,AVG(B.PRICE) OVER (PARTITION BY
A.HOST_ID) as Avg_Price_host
FROM LISTING ROME DF AS B
INNER JOIN HOST_ROME_DF A ON B.HOST_ID = A.HOST_ID where B.PRICE!=0)c
where host_is_superhost =0 or host_is_superhost =1 group by host_is_superhost ) ee
Avg_Availability-
select case when host is superhost = 0 then 'Host'
            when host is superhost = 1 then 'SuperHost' end as host Superhost,
Avg Available from(
select host_is_superhost,avg(sum1) as Avg_Available,year from (select
host is superhost, sum(available) as sum1, month(date) as month, year(date) as year from
```

```
select a.date,cast(a.available as int) as available,c.host_is_superhost from
dbo.df rome availability a
inner join dbo.listing rome df b on a.listing id = b.id
inner join dbo.host_rome_df c on c.host_id = b.host_id )cc where host_is_superhost=1
or host_is_superhost =0 group by host_is_superhost, month(date), year(date))ccc
group by host_is_superhost,year)cccc
06. Total No. of host and local Host -
     select host,count(Host) as No_Of_Host from (select case when host_location like
'%rome%' then 'LocalHost'
           else 'Host' end as Host from dbo.host_rome_df)c
                    group by host
Response rate > avg response rate
     select host, count(host) as Number of Host from (select case when host location
like '%rome%' then 'LocalHost'
           else 'Host' end as Host, host response rate from dbo.host rome df)c
                                                                                 where
host_response_rate > (
select avg(host_response_rate) as Avg_Response_rate from dbo.host_rome_df) group by
      host
Acceptance rate > avg acceptance rate
select host,count(host) as Number_of_Host from (select case when host_location like
'%rome%' then 'LocalHost'
           else 'Host' end as Host, host acceptance rate from dbo.host rome df)c
where host acceptance rate > (
select avg(host_acceptance_rate) as Avg_acceptance_rate from dbo.host_rome_df) group
      by host
response time-
select host,host_response_time,count(host_id) as No_Of_Host from (select case when
host_location like '%rome%' then 'LocalHost'
           else 'Host' end as Host,host_response_time, host_id from dbo.host_rome_df
      where host_response_time is not null )c group by host,host_response_time order
      by host
Profile pic
select host,host_has_profile_pic,count(host_id) as No_Of_Host from (select case when
host location like '%rome%' then 'LocalHost
           else 'Host' end as Host,host_has_profile_pic,host_id from dbo.host_rome_df
      where host has profile pic is not null)cc group by host, host has profile pic
      order by host
```

#### **Identity Verified**

## Listing Count > avg listing count

#### Avg Monthly Booking

```
Select case when g.host_location like '%rome%' then 'LocalHost'
else 'Host' end as Host,avg(ccc.Avg_booking) as Avg_Monthly_Booking from
(select host_id,avg(Total_booking) as Avg_booking from (
select distinct b.host_id,month(a.date) as month,count(a.available) as Total_Booking
from dbo.df_rome_availability a inner join dbo.listing_rome_df b on a.listing_id=b.id
where a.available = 'False' group by host_id,month(a.date))c
group by host_id ) cccc inner join dbo.host_venice_df g on g.host_id=cccc.host_id
group by case when host_location like '%rome%' then 'LocalHost'
else 'Host' end
```

# **VENICE**

--- Total NO. of Host and Superhost

```
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,No_Of_Host from (
select host_is_superhost,count(*) as No_OF_Host from dbo.host_venice_df where
host_is_superhost = 0 or host_is_superhost =1 group by host_is_superhost ) c
--- Avg Response Rate, min Resnpose Rate, Max Response Rate
select case when host_is_superhost = 0 then 'Host'
      when host is superhost = 1 then 'SuperHost' end as
host_Superhost,AvgResponseRate,MinResponseRate,MaxResponseRate from (
select host_is_superhost,avg(host_response_rate) as AvgResponseRate, min (host_response_rate)
as MinResponseRate, max(host response rate) as maxResponseRate from dbo.host venice df
where host_is_superhost = 1 and host_response_rate !=0 or host_is_superhost = 0 and
host_response_rate!=0 group by host_is_superhost) c
--- Avg response Rate < Response Rate
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,No_Of_Host from(
select host_is_superhost,count(host_id) as No_OF_Host from dbo.host_venice_df where
host_response_rate > (
select avg(host_response_rate) as Avg_Response_rate from dbo.host_venice_df) group by
host_is_superhost)c
--- Avg, Min, Max Listing Count
select case when host is superhost = 0 then 'Host'
      when host is superhost = 1 then 'SuperHost' end as
host_Superhost,AvgListingCount,MinListingCount,MaxListingCount from (
```

select host\_is\_superhost,avg(host\_listings\_count) as AvgListingCount, min (host\_listings\_count) as MinListingCount , max(host\_listings\_count) as MaxListingCount from dbo.host\_venice\_df where host\_is\_superhost = 1 and host\_listings\_count!=0 or host\_is\_superhost = 0 and host\_listings\_count!=0 group by host\_is\_superhost) cc

---listing count > avg listing count

select case when host\_is\_superhost = 0 then 'Host'

when host\_is\_superhost = 1 then 'SuperHost' end as host\_Superhost,No\_Of\_Host from(

select host\_is\_superhost,count(host\_id) as No\_OF\_Host from dbo.host\_venice\_df where host\_listings\_count > (

select avg(host\_listings\_count) as Avg\_Listing\_rate from dbo.host\_venice\_df) group by host\_is\_superhost)c

--- Respoonse Time

select case when host\_is\_superhost = 0 then 'Host'

when host\_is\_superhost = 1 then 'SuperHost' end as host\_Superhost,host\_response\_time,TotalHost from (

select host\_is\_superhost,host\_response\_time,count(host\_id) as TotalHost from dbo.host\_venice\_df where host\_is\_superhost =0 and host\_response\_time is not null or host\_is\_superhost =1 and host\_response\_time is not null group by host\_is\_superhost,host\_response\_time ) ccc order by host\_Superhost

--- Avg, Min, Max Acceptance Rate

select case when host\_is\_superhost = 0 then 'Host'

when host\_is\_superhost = 1 then 'SuperHost' end as host\_Superhost,AvgAcceptanceRate,MinAcceptanceRate,MaxAcceptanceRate from (

select host\_is\_superhost,avg(host\_acceptance\_rate) as AvgAcceptanceRate, min (host\_acceptance\_rate) as MinAcceptanceRate , max(host\_acceptance\_rate) as MaxAcceptanceRate from dbo.host\_venice\_df where host\_is\_superhost = 1 and host\_acceptance\_rate > 0 or host\_is\_superhost = 0 and host\_acceptance\_rate > 0 group by host\_is\_superhost) c

--- Acceptance rate > avg acceptance rate

```
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,No_Of_Host from(
select host_is_superhost,count(host_id) as No_OF_Host from dbo.host_venice_df where
host acceptance rate > (
select avg(host_acceptance_rate) as Avg_Acceptance_rate from dbo.host_venice_df) group by
host_is_superhost)c
--- Profile pic
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as
host_Superhost,host_has_profile_pic,TotalHost from (
select host_is_superhost,host_has_profile_pic,count(host_id) as TotalHost from dbo.host_venice_df
where host_is_superhost =0 and host_has_profile_pic is not null or host_is_superhost =1 and
host_has_profile_pic is not null group by host_is_superhost,host_has_profile_pic ) ccc order by
host Superhost
--- Identity Verified
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,
                       case when host_identity_verified = 0 then 'NO'
                       when host_identity_verified = 1 then 'YES'end as
host_identity_verified,TotalHost from (
select host_is_superhost,host_identity_verified,count(host_id) as TotalHost from
dbo.host venice df where host is superhost =0 and host identity verified is not null or
host_is_superhost =1 and host_identity_verified is not null group by
host_is_superhost,host_identity_verified ) ccc order by host_Superhost
--- avg monthly booking
select distinct available from dbo.df venice availability
select case when host is superhost = 0 then 'Host'
```

```
when host_is_superhost = 1 then 'SuperHost' end as
host Superhost, Average montly Booking from (
select h.host is superhost, avg (g.Avg booking) as Average montly Booking from (
select host id,avg(Total booking) as Avg booking from (
select distinct b.host id,month(a.date) as month,count(a.available) as Total Booking from
dbo.df_venice_availability a inner join dbo.listing_venice_df b on a.listing_id=b.id where a.available
= 'False' group by host_id,month(a.date))c
group by host_id )g inner join dbo.host_venice_df h on g.host_id=h.host_id where
h.host is superhost=0 or h.host is superhost =1 group by h.host is superhost)cccc
--- REVIEWS
select * from dbo.listing venice df
select avg(a.review_scores_rating) as review_scores_rating , avg( ,b.host_is_superhost from
dbo.listing_venice_df a inner join dbo.host_venice_df b on a.host_id = b.host_id where
a.review_scores_rating!=0 and b.host_is_superhost=0 or a.review_scores_rating!=0 and
b.host_is_superhost=1 group by b.host_is_superhost
--- instant booking
select case when host_is_superhost = 0 then 'Host'
            when host_is_superhost = 1 then 'SuperHost' end as
host_Superhost,NO_of_host from
                      (select b.host is superhost, count(distinct a.host id) as
NO of host from dbo.listing venice df a
inner join dbo.host_venice_df b on a.host_id=b.host_id
where instant_bookable = 1 group by b.host_is_superhost)c where host_is_superhost=0 or
host_is_superhost=1
Q2. Crucial Points - ----
      Response Rate
      Response Time
      Aceeptance rate
      Identity Verified
```

```
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as host_Superhost,
No_of_Positive_comment from(
select host_is_superhost,sum(case when
                 comments like '%great%' or comments like '%nice%' or comments like
'%wonderful%' or comments like '%brilliant%'or
                                                             comments like '%great location%' or
comments like '%good%' or comments like '%lovely%' or comments like '%friendly%'or
                                                             comments like '%perfect%' or
comments like '%beautiful%' or comments like '%definetly stay%' or comments like '%excellent%'
                                                             or comments like '%highly
recommended%'
                                                             then 1 else 0 end) as
No_of_Positive_comment from (
select a.comments,c.host_is_superhost from dbo.review_venice_df a
inner join dbo.listing_venice_df b on a.listing_id=b.id
inner join dbo.host_venice_df c on b.host_id = c.host_id)dd where host_is_superhost=0 or
host_is_superhost=1 group by host_is_superhost)ee
---- Q4.
select a.property_type,b.host_is_superhost from dbo.listing_venice_df a inner join
dbo.host venice df b on a.host id=b.host id where a.property type like '%entire%'
---- Q5.
---- Avg price
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as host_Superhost, Avg_Price from(
select host_is_superhost,avg(avg_price_host) as Avg_Price from (
SELECT DISTINCT A.HOST_ID,a.host_is_superhost,AVG(B.PRICE) OVER (PARTITION BY A.HOST_ID) as
Avg_Price_host
FROM LISTING_VENICE_DF AS B
```

```
INNER JOIN HOST_VENICE_DF A ON B.HOST_ID = A.HOST_ID where B.PRICE!=0)c
where host is superhost =0 or host is superhost =1 group by host is superhost) ee
-- availability
select * from dbo.df_venice_availability
select distinct year(date) from dbo.df venice availability
select case when host_is_superhost = 0 then 'Host'
      when host_is_superhost = 1 then 'SuperHost' end as host_Superhost, Avg_Available from(
select host_is_superhost,avg(sum1) as Avg_Available,year from (select
host_is_superhost,sum(available) as sum1,month(date) as month,year(date) as year from (
select a.date,cast(a.available as int) as available,c.host_is_superhost from dbo.df_venice_availability
inner join dbo.listing venice df b on a.listing id = b.id
inner join dbo.host venice df c on c.host id = b.host id )cc where host is superhost=1 or
host is superhost =0 group by host_is_superhost, month(date),year(date))ccc
group by host_is_superhost,year)cccc
--- Q6.
---- Comments
select q.hosts,Avg(count_comments) as avg_comments from (select
h.host_id,h.host_is_superhost as hosts,count(r.comments) as count_comments from
host_venice_df h join listing_venice_df l on l.host_id = h.host_id
join review_venice_df r on r.listing_id = 1.id
join df_venice_availability a on a.listing_id = 1.id
group by h.host_id,h.host_is_superhost) q
where q.hosts is not null
group by q.hosts
---- total no. of host and local host
select host,count(Host) as No_Of_Host from (select case when host_location like '%venice%' then
'LocalHost'
      else 'Host' end as Host from dbo.host_venice_df)c
                      group by host
```

```
--- Avg response Rate < Response Rate
select distinct host_location from dbo.host_venice_df where host_location like '%venice%'
select * from dbo.listing_venice_df
select host, count(host) as Number_of_Host from (select case when host_location like '%venice%'
then 'LocalHost'
      else 'Host' end as Host,host_response_rate from dbo.host_venice_df)c where
host_response_rate > (
select avg(host_response_rate) as Avg_Response_rate from dbo.host_venice_df) group by host
--- Avg aceeptance Rate < Acceptance Rate
select host, count(host) as Number_of_Host from (select case when host_location like '%venice%'
then 'LocalHost'
      else 'Host' end as Host,host_acceptance_rate from dbo.host_venice_df)c where
host_acceptance_rate > (
select avg(host_acceptance_rate) as Avg_acceptance_rate from dbo.host_venice_df) group by host
---- Response Time
select host,host_response_time,count(host_id) as No_Of_Host from (select case when host_location
like '%venice%' then 'LocalHost'
      else 'Host' end as Host,host_response_time, host_id from dbo.host_venice_df where
host_response_time is not null )c group by host,host_response_time order by host
--- profile pic
```

select host,host\_has\_profile\_pic,count(host\_id) as No\_Of\_Host from (select case when

host\_has\_profile\_pic is not null)cc group by host,host\_has\_profile\_pic order by host

else 'Host' end as Host, host has profile pic, host id from dbo. host venice df where

--- identity verified

host location like '%venice%' then 'LocalHost'

select host, case when host\_identity\_verified = 0 then 'NO'

when host\_identity\_verified = 1 then 'YES'end as host\_identity\_verified,count(host\_id) as No\_Of\_Host from (select case when host\_location like '%venice%' then 'LocalHost'

else 'Host' end as Host,host\_identity\_verified,host\_id from dbo.host\_venice\_df where host\_identity\_verified is not null)cc group by host,host\_identity\_verified order by host

--- listing count > avg listing count

select host,count(host\_id) as No\_Of\_Host from(select case when host\_location like '%venice%' then 'LocalHost'

else 'Host' end as Host,host\_id from dbo.host\_venice\_df where host\_listings\_count > (
select avg(host\_listings\_count) as Avg\_Listing\_rate from dbo.host\_venice\_df))c group by host

----

Select case when g.host\_location like '%venice%' then 'LocalHost'

else 'Host' end as Host,avg(cccc.Avg\_booking) as Avg\_Monthly\_Booking from ( select host\_id,avg(Total\_booking) as Avg\_booking from (

select distinct b.host\_id,month(a.date) as month,count(a.available) as Total\_Booking from dbo.df\_venice\_availability a inner join dbo.listing\_venice\_df b on a.listing\_id=b.id where a.available = 'False' group by host\_id,month(a.date))c

group by host\_id ) cccc inner join dbo.host\_venice\_df g on g.host\_id=cccc.host\_id group by case when host\_location like '%venice%' then 'LocalHost'

else 'Host' end