

1. What is the time period used?

QUERY -

```
select start_time,end_time,DATEDIFF(end_time,start_time)
as time_period from (select
min(date) start_time,
max(date) end_time
from airbnb)as temp
```

	start_time	end_time	time_period
▶	2016-09-06	2017-09-05	364

2. How many properties have duplicate entries? Remove duplicate rows (say a row appears 3 times, remove 2 and keep 1)

QUERY -

Create Table airbnb_temp

(listing_id int,

date date,

available varchar(255),

price varchar(255),

new_price int,

```
rownum int);
```

```
INSERT INTO airbnb_temp
```

```
select listing_id as property,date,available,price,new_price,row_number()  
over(partition by listing_id, date, available order by listing_id) as rownum from  
airbnb
```

```
order by listing_id,date;
```

```
SET SQL_SAFE_UPDATES = 0;
```

```
Delete from airbnb_temp where rownum>1
```

3. For each property, find out the number of days the property was available and not available (create a table with listing_id, available days, unavailable days and available days as a fraction of total days)

QUERY -

```
Create table ques3
```

```
(
```

```
listing_id int,
```

```
available varchar(255),
```

```
unavailable varchar(255),
```

```
total int,
```

```
available_days_percentage float
```

```
);
```

INSERT INTO ques3

select listing_id,SUM(available = 't') AS Available,

SUM(available = 'f') AS Unavailable,

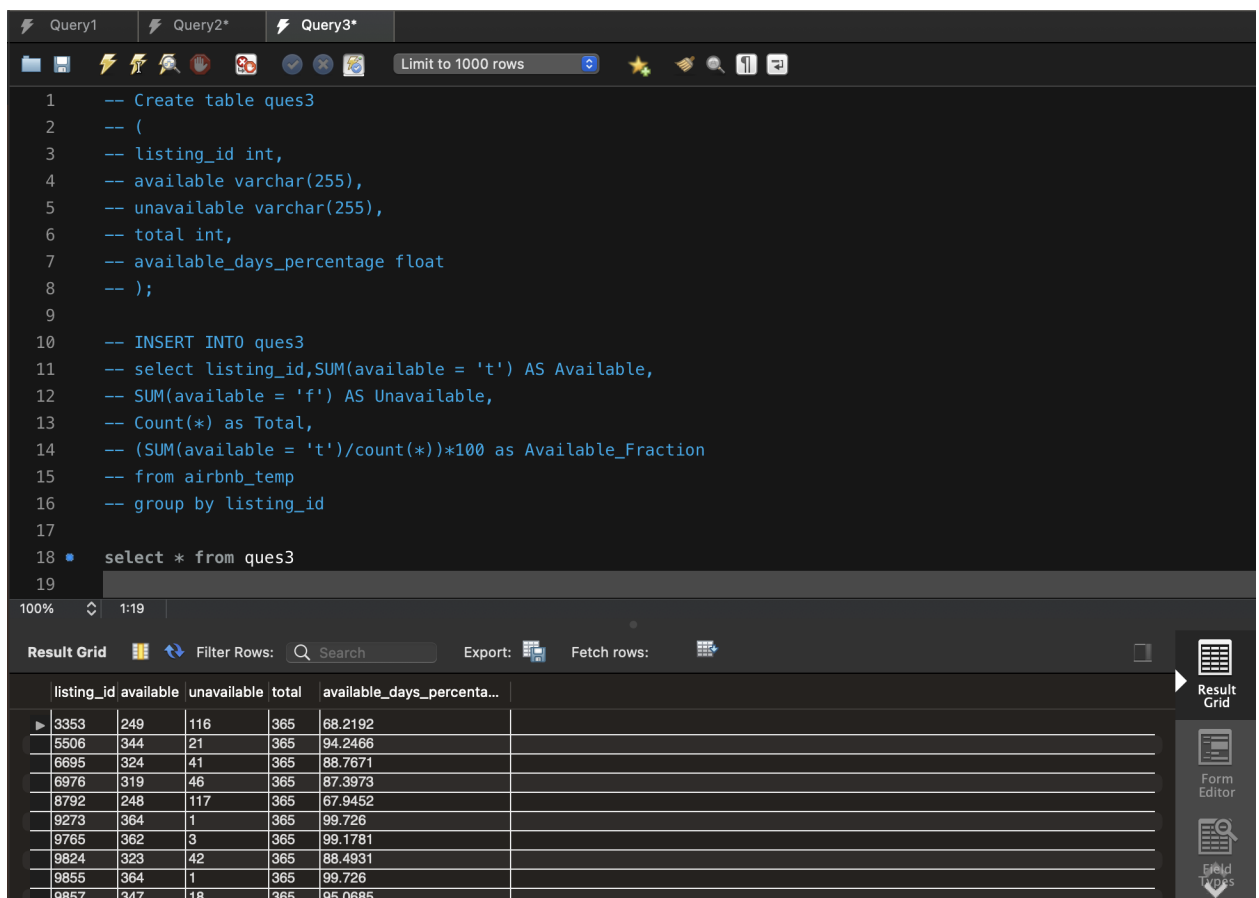
Count(*) as Total,

(SUM(available = 't')/count(*))*100 as Available_Fraction

from airbnb_temp

group by listing_id

-- select * from ques3



```
1  -- Create table ques3
2  -- (
3  -- listing_id int,
4  -- available varchar(255),
5  -- unavailable varchar(255),
6  -- total int,
7  -- available_days_percentage float
8  -- );
9
10 -- INSERT INTO ques3
11 -- select listing_id,SUM(available = 't') AS Available,
12 -- SUM(available = 'f') AS Unavailable,
13 -- Count(*) as Total,
14 -- (SUM(available = 't')/count(*))*100 as Available_Fraction
15 -- from airbnb_temp
16 -- group by listing_id
17
18 select * from ques3
19
```

100% 1:19

Result Grid Filter Rows: Search Export: Fetch rows:

listing_id	available	unavailable	total	available_days_percenta...
3353	249	116	365	68.2192
5506	344	21	365	94.2466
6695	324	41	365	88.7671
6976	319	46	365	87.3973
8792	248	117	365	67.9452
9273	364	1	365	99.726
9765	362	3	365	99.1781
9824	323	42	365	88.4931
9855	364	1	365	99.726
9857	347	18	365	95.0685

Result Grid Form Editor Field Trips

4. How many properties were available on more than 50% of the days? How many properties were available on more than 75% of the days?

QUERY -

(A)

```
select count(*) from ques3 where available_days_percentage>50;
```

	count(*)
▶	1732

(B)

```
select count(*) from ques3 where available_days_percentage>75;
```

	count(*)
▶	1429

5. Create a table with max, min and average price of each property

QUERY -

```
Create Table Ques5
```

```
( property int,
```

```
maxprice float,
```

```
minprice float,
```

```
avgprice float);
```

INSERT INTO Ques5

SELECT LISTING_ID AS PROPERTY,MAX(NEW_PRICE) AS MAXPRICE,

MIN(NEW_PRICE) AS MINPRICE, AVG(NEW_PRICE) AS AVGPRICE

FROM airbnb

GROUP BY LISTING_ID

--select * from ques5

	property	maxprice	minprice	avgprice	
	3075044	75	0	66.6986	
	6976	65	0	56.8082	
	1436513	75	0	20.137	
	7651065	79	0	72.2904	
	12386020	75	0	11.9178	
	5706985	200	0	105.326	
	2843445	75	75	75	
	753446	69	0	56.4356	
	849408	309	0	74.1452	
	12023024	60	0	51.0384	
	1668313	57	0	53.2521	
	2684840	0	0	0	
	13547301	150	0	53.0137	
	5434353	145	0	126.726	
	225979	60	0	55.726	
	3420384	170	0	159.123	
	13512930	0	0	0	

6. Extract properties with an average price of more than \$500

QUERY -

```
SELECT LISTING_ID as Property,avg(new_price) as Price FROM airbnb_temp  
GROUP BY LISTING_ID  
HAVING AVG(NEW_PRICE)>500
```

	Property	Price	
▶	50032	653.4932	
	743211	521.5753	
	820073	538.8164	
	1214214	520.0000	
	1810397	732.0548	
	2277821	573.6603	
	2881388	726.1479	
	3673688	699.0000	
	3881993	506.7123	
	4812786	564.3014	
	5690424	575.3151	
	5783197	560.2740	
	6066455	797.2164	
	6326257	625.5836	
	6544715	640.6849	
	6627802	1000.00...	
	6629066	583.8356	