

```
/*=====Q1=====*/
```

Q1. What is the time period used?

```
(SELECT
    date
FROM
    airbnb
ORDER BY date
LIMIT 1) UNION (SELECT
    date
FROM
    airbnb
ORDER BY date DESC
LIMIT 1);
```

Result Grid



Filter Rows:



Search

Export:



Result
Grid



Form

	DATE_MIN	DATE_MAX	TimePeriod	
▶	2016-09-06	2017-09-05	364	

```
/*=====Q2=====*/
```

Q2. How many properties have duplicate entries? Remove duplicate rows (say a row appears 3 times, remove 2 and keep 1)

```
SELECT
    listing_id, date, COUNT(*) c
FROM
    airbnb
GROUP BY listing_id , date
HAVING COUNT(*) > 1;

DELETE t1 FROM (SELECT *, ROW_NUMBER () OVER(listing_id ) as
rownum FROM airbnb) t1
INNER JOIN (SELECT *, ROW_NUMBER() OVER(listing_id) as rownum
FROM airbnb) t2
WHERE
t1.date= t2.date AND
t1.listing_id = t2.listing_id AND
ti.rownum < t2.rownum;
```

```
58
59
60 • SELECT
61     listing_id, date, COUNT(*) c
62     FROM
63     airbnb
64     GROUP BY listing_id , date
```

100% 5:62

Result Grid



Filter Rows:



Search

Export:



Result
Grid

	listing_id	date	c
▶	12898806	2016-09-06	2
▶	12898806	2016-09-07	2

```
/*=====Q3=====*/
```

Q3. 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)

```
SELECT
    listing_id AS property,
    SUM(CASE
        WHEN available = 't' THEN 1
        ELSE 0
    END) AS Available,
    SUM(CASE
        WHEN available = 'f' THEN 1
        ELSE 0
    END) AS Unavailable
FROM
    airbnb
GROUP BY listing_id;
```

```

3
4  /*=====Q3=====*/
5
6  SELECT
7      listing_id AS property,
8      SUM(CASE
9          WHEN available = 't' THEN 1
10
11
12
13:78

```

Result Grid

property	Available	Unavailable
12147973	0	365
3075044	359	6
6976	319	46
1436513	98	267
7651065	334	31
12386020	58	307
5706985	344	21
2843445	365	0

Result Grid
Form Editor
Field

```

14
15  /*=====Q4=====*/

```

Q4. How many properties were available on more than 50% of the days? How many properties were available on more than 75% of the days?

```

SELECT
    listing_id, percent
FROM
    (SELECT
        listing_id,
        (COUNT(CASE
            WHEN available = 't' THEN 1
        END) / COUNT(*)) * 100 AS percent
    FROM
        airbnb
    GROUP BY listing_id) AS temp
WHERE
    percent > 50;
SELECT

```

```

    listing_id, percent
FROM
    (SELECT
        listing_id,
        (COUNT(CASE
            WHEN available = 't' THEN 1
            END) / COUNT(*)) * 100 AS percent
    FROM
        airbnb
    GROUP BY listing_id) AS temp
WHERE
    percent > 75;

```

```

87     airbnb
88     GROUP BY listing_id;
89
90     /*=====Q4=====*/
91
92     SELECT
93     listing_id, percent

```

100% 15:93

Result Grid



Filter Rows:



Search

Export:



Fetch rows:



Result Grid



Form Editor



Field Types

	listing_id	percent	
▶	3075044	98.3562	
▶	6976	87.3973	
▶	7651065	91.5068	
▶	5706985	94.2466	
▶	2843445	100.0000	
▶	753446	95.0685	
▶	12023024	93.9726	
▶	1668313	93.4247	
▶	5434353	87.3973	

```
67 -- on more than 75% of the days:
68 * select count(*) as available_days from availab
69 * select count(*) as available_days from availab
70
71 * SET SQL_SAFE_UPDATES=0;
```

0% 18:68




Result Grid   Filter Rows: Export: 

availab...	
▶ 1732	

70

```
71 * SET SQL_SAFE_UPDATES=0;
```

100% 31:69

Result Grid   Filter Rows: Export: 

availab...	
▶ 1429	

Re
C

F
E

```
/*=====Q5=====*/
```

Q5. Create a table with max, min and average price of each property.

```
SELECT
    listing_id AS property,
    MAX(price) AS Max,
    MIN(price) AS Min,
    AVG(price) AS Average
FROM
    airbnb
GROUP BY listing_id;
```

```

116 WHERE
117     percent > 75;
118
119 /*=====Q5=====*/
120
121 • SELECT
122     listing_id AS property,

```

100% 8:121

Result Grid



Filter Rows:



Search

Export:



Fetch rows:



Result
Grid



Form
Editor



Field
Types

	property	Max	Min	Average	
▶	3353	36.00	32.00	35.204819277108435	
▶	5506	275.00	145.00	147.2674418604651	
▶	6695	325.00	195.00	197.40740740740742	
▶	6976	65.00	65.00	65	
▶	8792	154.00	154.00	154	
▶	9273	225.00	225.00	225	
▶	9765	490.00	192.00	236.85635359116023	
▶	9824	490.00	209.00	222.32198142414862	
▶	9855	309.00	259.00	266.55494505494505	
▶	9857	309.00	201.00	255.304819277108435	

```

/*=====Q6=====*/

```

Q6. Extract properties with an average price of more than \$500.

```

SELECT
    listing_id, Price
FROM
    (SELECT
        AVG(price) AS Price, listing_id
    FROM
        airbnb
    GROUP BY listing_id) AS temp

```


WHERE

Price > 500;

134 listing_id, Price

135 FROM

136 (SELECT

137 AVG(price) AS Price, listing_id

138 FROM

139 airbnb

140 GROUP BY listing_id) AS temp

100% 20:140

Result Grid



Filter Rows:



Search

Export:



Result
Grid



Form
Editor



Field
Types

	listing_id	Price	
▶	3881993	508.1043956043956	
	743211	569.9850299401197	
	115936	525	
	50032	725	
	10153739	553.7094017094017	
	10153536	553.7094017094017	
	475259	506.8965517241379	
	10136854	553.7094017094017	
	13445221	563.1714285714286	
	14813006	584.0652818001008	