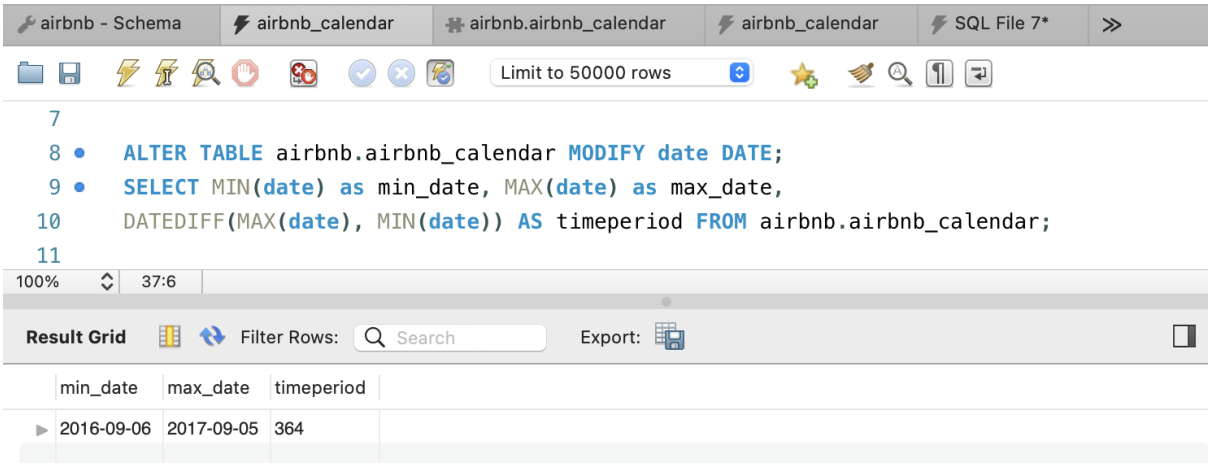
SQL assignment:

(f and t mean false and true, respectively)

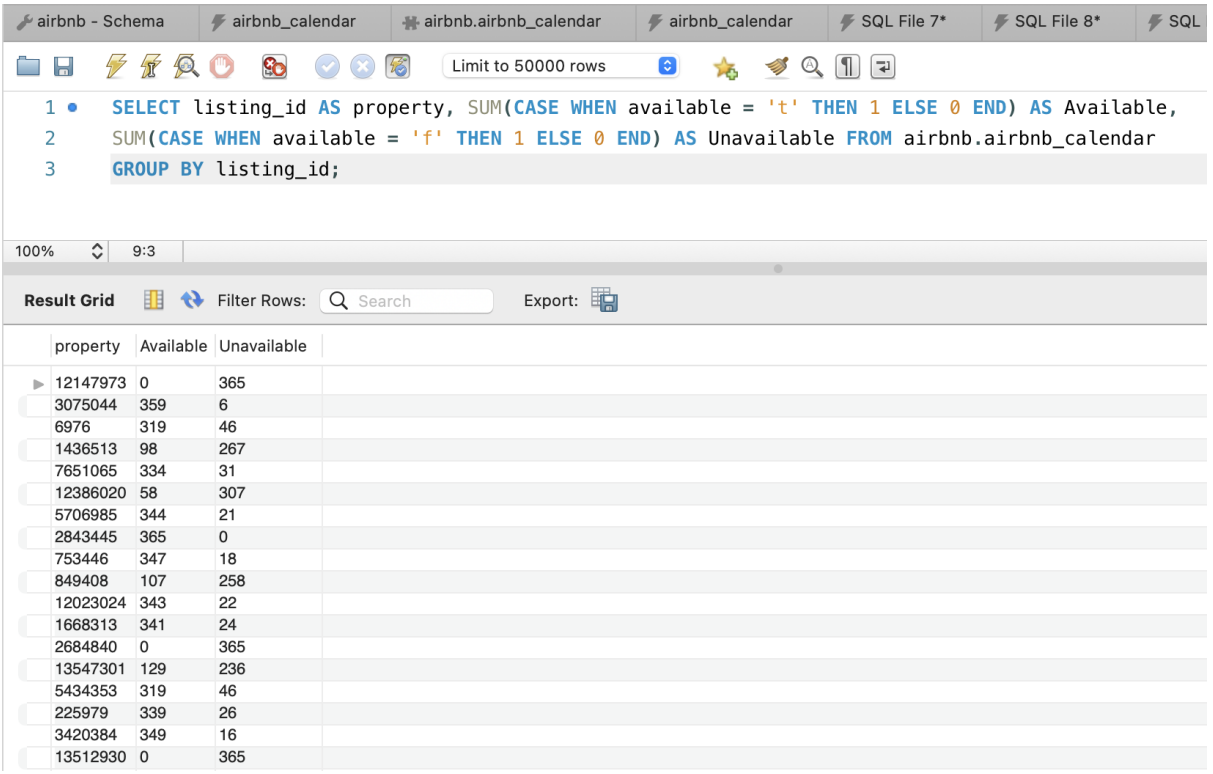
Please share query and output for each:

Questions:

Q1. What is the time period used?

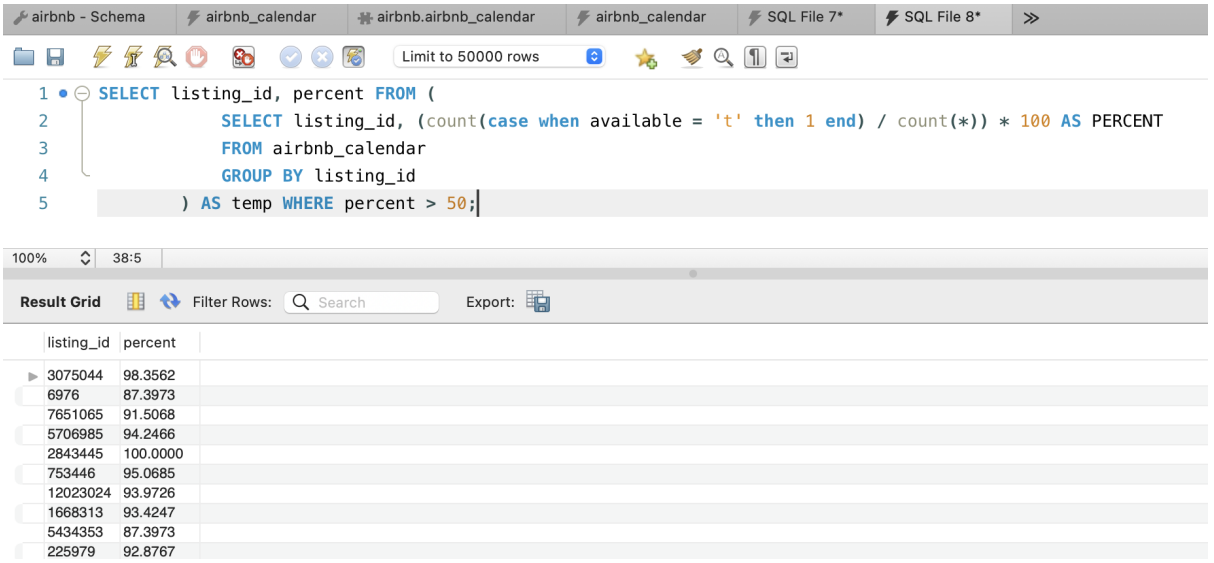


Q3. For each property, find out the number of days the property was available and not available (create a table with listing_id, available days, unavailable days and available days as a fraction of total days)

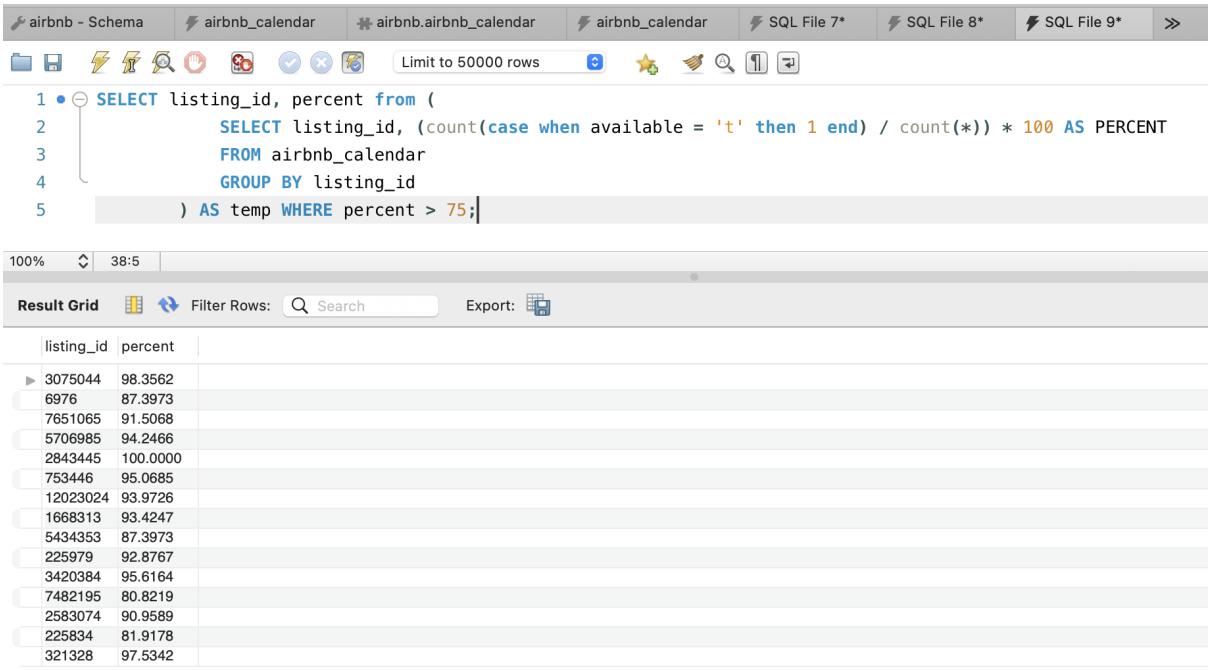


Q4. How many properties were available on more than 50% of the days? How many properties were available on more than 75% of the days?

4 a.



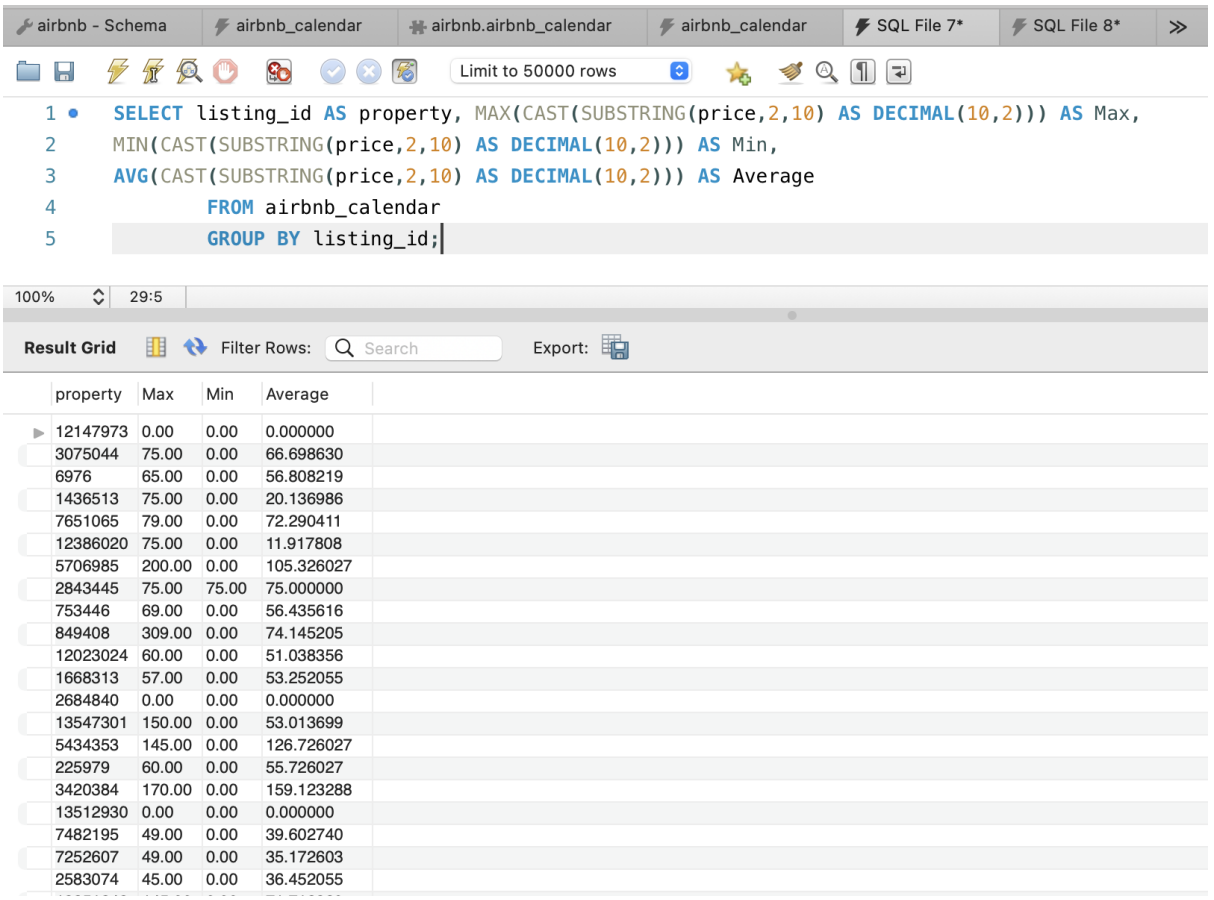
4 b.



```
SELECT listing_id, percent from (
            SELECT listing_id, (count(case when available = 't' then 1 end) / count(*)) * 100 AS PERCENT
            FROM airbnb_calendar
            GROUP BY listing_id
        ) AS temp WHERE percent > 75;
```

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
225979	92.8767
3420384	95.6164
7482195	80.8219
2583074	90.9589
225834	81.9178
321328	97.5342

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



```
SELECT listing_id AS property, MAX(CAST(SUBSTRING(price,2,10) AS DECIMAL(10,2))) AS Max,
MIN(CAST(SUBSTRING(price,2,10) AS DECIMAL(10,2))) AS Min,
AVG(CAST(SUBSTRING(price,2,10) AS DECIMAL(10,2))) AS Average
        FROM airbnb_calendar
        GROUP BY listing_id;
```

property	Max	Min	Average
12147973	0.00	0.00	0.000000
3075044	75.00	0.00	66.698630
6976	65.00	0.00	56.808219
1436513	75.00	0.00	20.136986
7651065	79.00	0.00	72.290411
12386020	75.00	0.00	11.917808
5706985	200.00	0.00	105.326027
2843445	75.00	75.00	75.000000
753446	69.00	0.00	56.435616
849408	309.00	0.00	74.145205
12023024	60.00	0.00	51.038356
1668313	57.00	0.00	53.252055
2684840	0.00	0.00	0.000000
13547301	150.00	0.00	53.013699
5434353	145.00	0.00	126.726027
225979	60.00	0.00	55.726027
3420384	170.00	0.00	159.123288
13512930	0.00	0.00	0.000000
7482195	49.00	0.00	39.602740
7252607	49.00	0.00	35.172603
2583074	45.00	0.00	36.452055

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