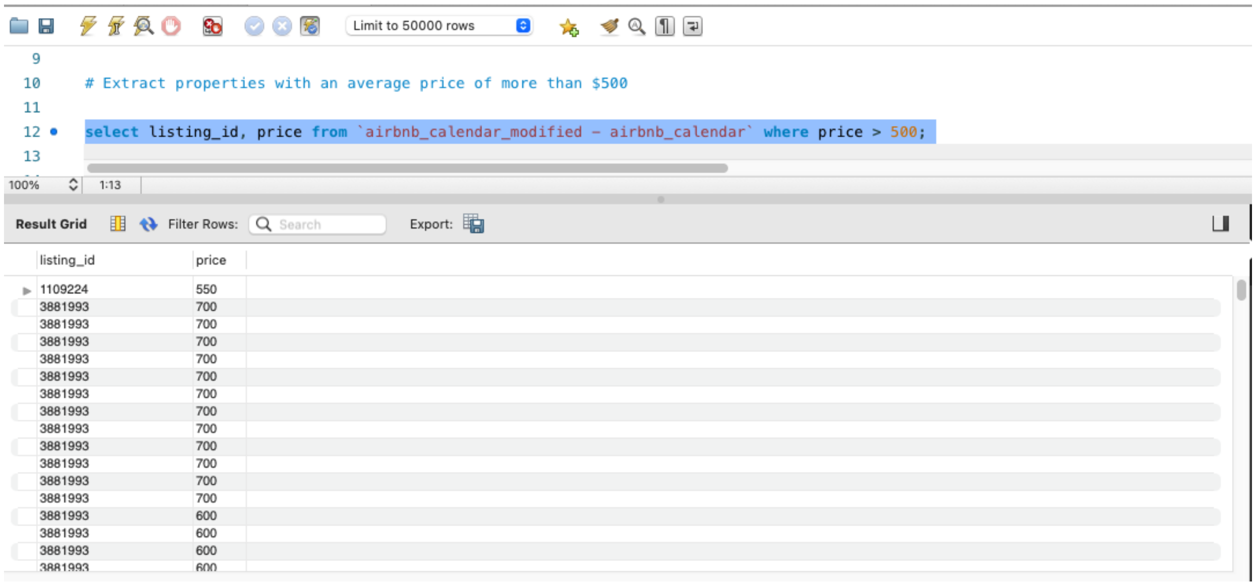
Name: Tathagata Roy

Employee code: TAS067

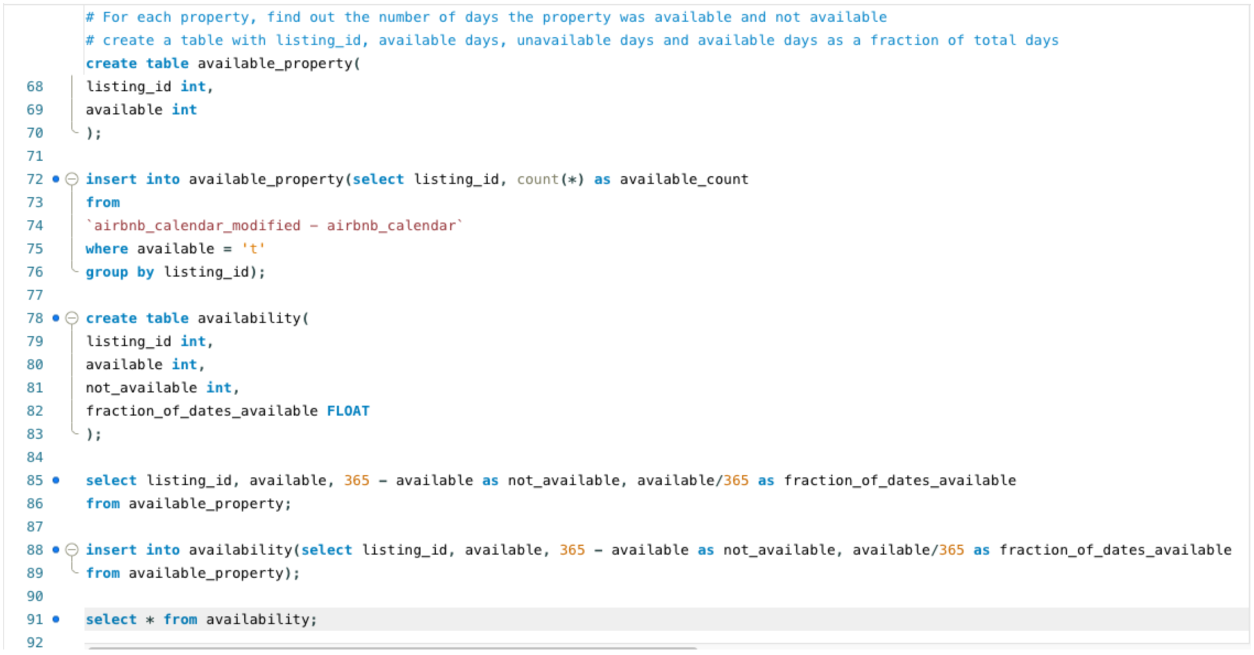
What is the time period used?



```sql
# Extract properties with an average price of more than $500

select listing_id, price from `airbnb_calendar_modified - airbnb_calendar` where price > 500;
```

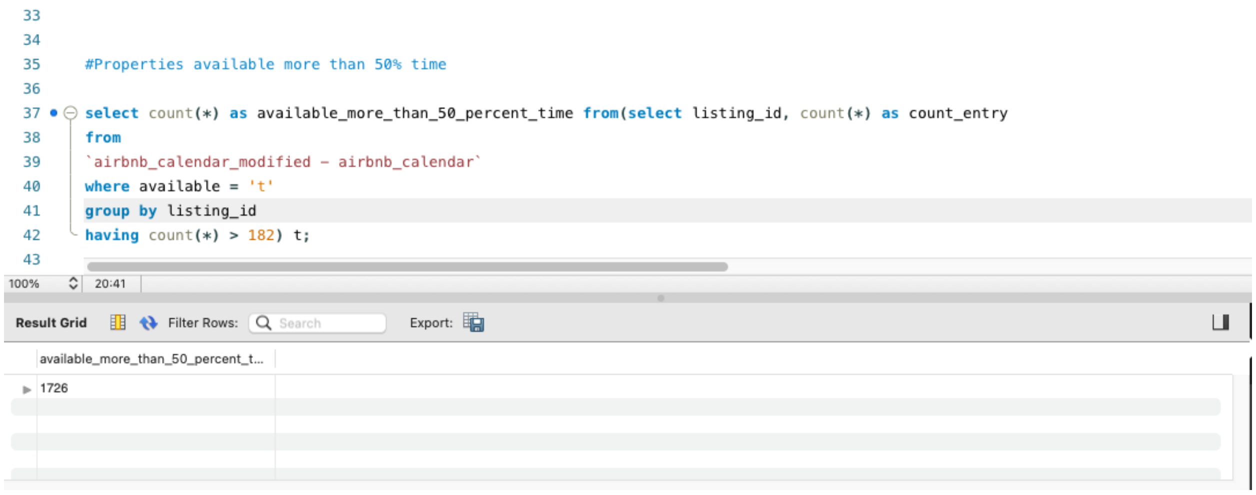
listing_id	price
1109224	550
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	700
3881993	600
3881993	600
3881993	600
3881993	600

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)



```
# 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
create table available_property(
listing_id int,
available int
);

insert into available_property(select listing_id, count(*) as available_count
from
`airbnb_calendar_modified - airbnb_calendar`
where available = 't'
group by listing_id);

create table availability(
listing_id int,
available int,
not_available int,
fraction_of_dates_available FLOAT
);

select listing_id, available, 365 - available as not_available, available/365 as fraction_of_dates_available
from available_property;

insert into availability(select listing_id, available, 365 - available as not_available, available/365 as fraction_of_dates_available
from available_property);

select * from availability;
```

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



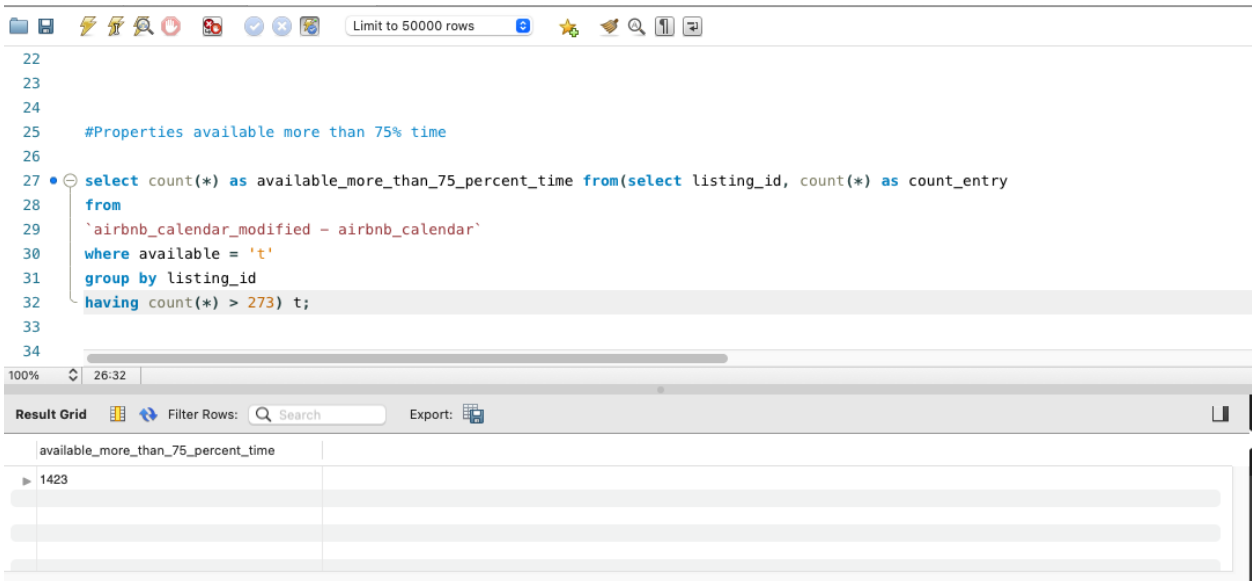
```
#Properties available more than 50% time

select count(*) as available_more_than_50_percent_time from(select listing_id, count(*) as count_entry
from
`airbnb_calendar_modified - airbnb_calendar`
where available = 't'
group by listing_id
having count(*) > 182) t;
```

```
100%    20:41
```

Result Grid

available_more_than_50_percent_t...
1726

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



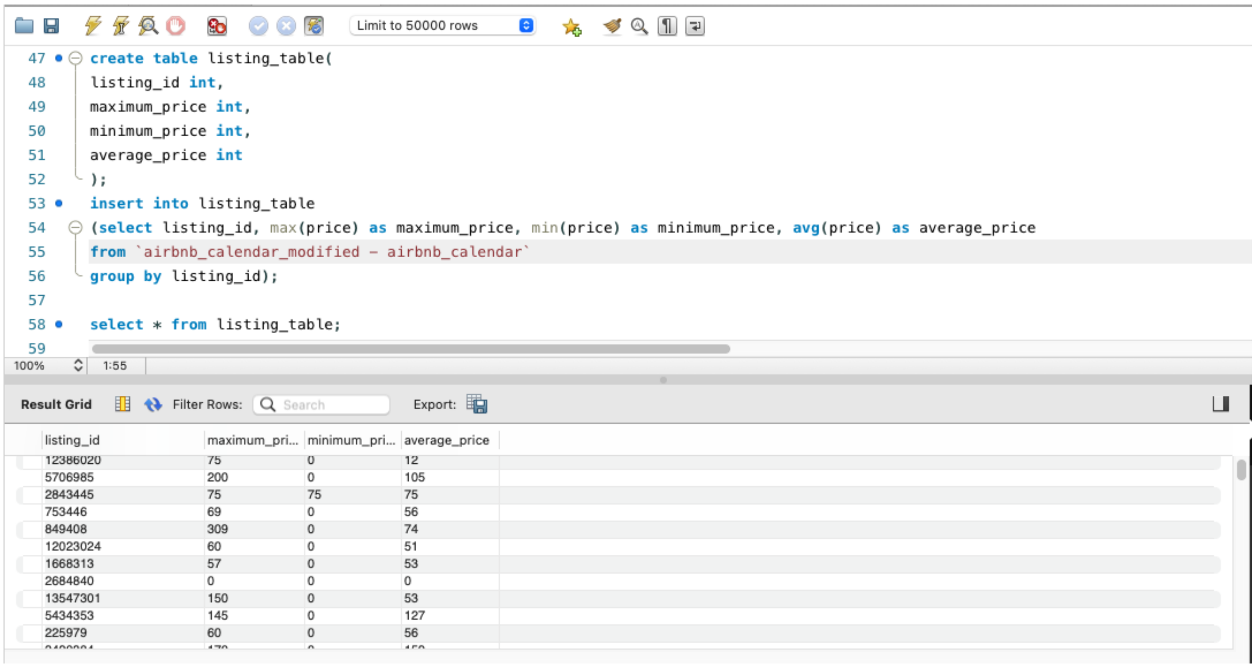
```
#Properties available more than 75% time

select count(*) as available_more_than_75_percent_time from(select listing_id, count(*) as count_entry
from
`airbnb_calendar_modified - airbnb_calendar`
where available = 't'
group by listing_id
having count(*) > 273) t;
```

```
100%    26:32
```

Result Grid

available_more_than_75_percent_time
1423

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



Limit to 50000 rows

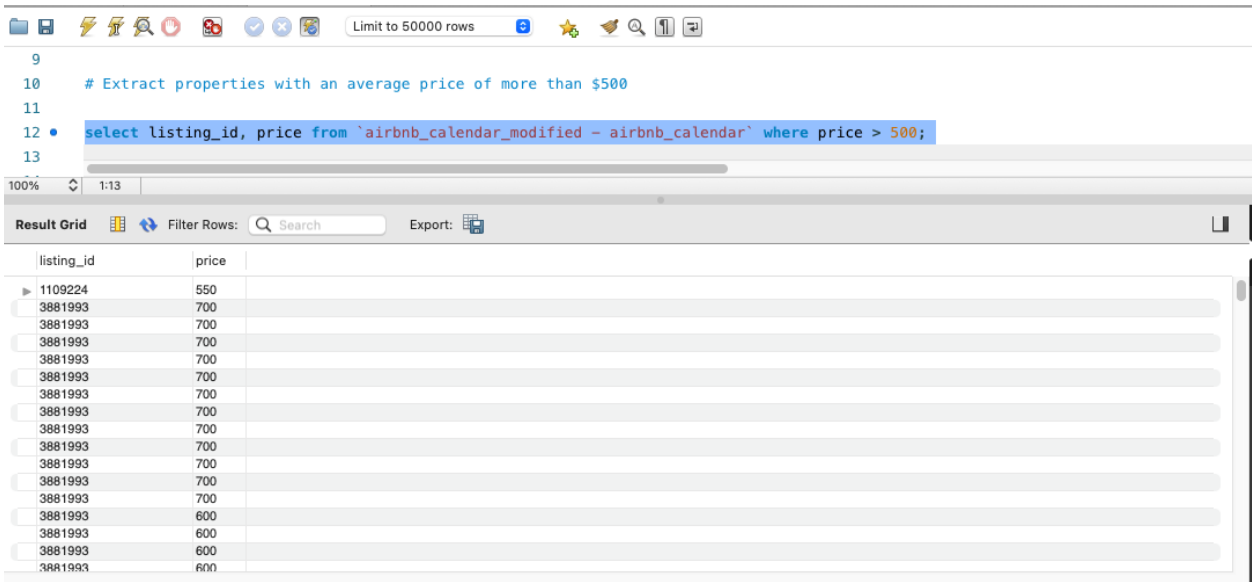
```sql
create table listing_table(
listing_id int,
maximum_price int,
minimum_price int,
average_price int
);
insert into listing_table
(select listing_id, max(price) as maximum_price, min(price) as minimum_price, avg(price) as average_price
from `airbnb_calendar_modified - airbnb_calendar`
group by listing_id);

select * from listing_table;
```

100% 1:55

Result Grid Filter Rows: Export:

listing_id	maximum_pri...	minimum_pri...	average_price
12386020	75	0	12
5706985	200	0	105
2843445	75	75	75
753446	69	0	56
849408	309	0	74
12023024	60	0	51
1668313	57	0	53
2684840	0	0	0
13547301	150	0	53
5434353	145	0	127
225979	60	0	56

Extract properties with an average price of more than $500



Limit to 50000 rows

```
# Extract properties with an average price of more than $500

select listing_id, price from `airbnb_calendar_modified - airbnb_calendar` where price > 500;
```

100% 1:13

Result Grid Filter Rows: Search Export:

```
listing_id   price
1109224      550
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      700
3881993      600
3881993      600
3881993      600
3881993      600
```