```sql
select
market_start_datetime,
extract(year from market_start_datetime) as my_year,
extract(day from market_start_datetime) as my_day,
extract(month from market_start_datetime) as my_month,
extract(hour from market_start_datetime) as my_hour,
extract(DAYOFWEEK from market_start_datetime) as day_number,
extract(QUARTER from market_start_datetime) as qrtr_name,
from farmer_market.datetime_demo;
#where market_start_datetime = '2019-03-02 08:00:00';



SELECT FORMAT_TIMESTAMP("%c", TIMESTAMP "2008-12-25 15:30:07+00", "PDT") AS
formatted;

SELECT 'PST' AS input_tz, TIMESTAMP(DATETIME(DATE(2021, 1, 1), TIME(16, 0, 0)),
'UTC');

SELECT
     x.first_market,
     x.last_market,
     DATE_DIFF(x.last_market, x.first_market, DAY) days_first_to_last
 FROM
(
SELECT
         min(market_start_datetime) first_market,
         max(market_start_datetime) last_market
     FROM farmer_market.datetime_demo
) x

#Question: Let's say we wanted to get a profile of each farmer's market customer's
habits over time.
#First purchase date
#Last purchase date
#Count of distinct purchases

select
  customer_id,
  min(market_date) as first_purchase,
  max(market_date) as last_purchase,
  count(distinct market_date) as cnt_of_purchases
from
`farmer_market.customer_purchases`
group by customer_id;

#Q1. If we wanted to determine for how long this person has been a customer of the
farmer's market?

select
```

```
  customer_id,
  min(market_date) as first_purchase,
  max(market_date) as last_purchase,
  count(distinct market_date) as cnt_of_purchases,
  DATE_DIFF(max(market_date), min(market_date), day) as loyalty_days
from
`farmer_market.customer_purchases`
group by customer_id;


#Q2. If we wanted to also know how long it's been since the customer last made a
purchase?
select
  customer_id,
  min(market_date) as first_purchase,
  max(market_date) as last_purchase,
  count(distinct market_date) as cnt_of_purchases,
  DATE_DIFF(max(market_date), min(market_date), day) as loyalty_days,
  DATE_DIFF(CURRENT_DATE(), max(market_date), day) as days_from_last_purchase
from
`farmer_market.customer_purchases`
group by customer_id;

#Question: Write a query that gives us the days between each purchase a customer
makes.

select distinct customer_id ,not_loyal_customer from
(
  select
customer_id,
market_date,
lag(market_date) OVER(partition by customer_id order by market_date) as
last_purchase,
DATE_DIFF(market_date,lag(market_date) OVER(partition by customer_id order by
market_date) ,day) as not_loyal_customer
from `farmer_market.customer_purchases`

) t
where t.not_loyal_customer > 100
order by customer_id
```