

```
-- Question: We want to get the most and least expensive items
```

```
-- available in the vendor's inventory.
```

```
SELECT
  MIN(original_price) AS least_price,
  MAX(original_price) AS highest_price
FROM
  `market.vendor_inventory`
```

```
-- Question: We want to calculate how much revenue has been
-- generated in total by purchases made by our customers.
```

```
select *
from `market.customer_purchases`
```

```
select
  sum(quantity*cost_to_customer_per_qty) as total_revenue
from `market.customer_purchases`
```

```
-- Question: We want to find out the average quantity of products
```

```
-- purchased by the customers on the date '2019-05-01'.
```

```
select
```

```
    avg(quantity)
from `market.customer_purchases`
where market_date = "2019-05-01"
```

-- Question: We want to know the total number of purchases
that
-- happened during the second quarter of the year 2019.

```
select
    *
from `market.customer_purchases`
where market_date Between "2019-04-01" and "2019-06-30"
```

```
select
    count(*) as total_num_purchases
from `market.customer_purchases`
where market_date Between "2019-04-01" and "2019-06-30"
```

-- Follow-up Question: What if we ask you to get the number
of
-- unique customers who made any purchases during the second
-- quarter of the year 2019.

```
select
    count(distinct customer_id) as unique_customers
from `market.customer_purchases`
where market_date between "2019-04-01" and "2019-06-30"
```

```
-- Question: Get a list of the customers who made purchases
on each
-- market date
```

```
select
    *
from `market.customer_purchases`
limit 5
```

```
select
    distinct
    market_date, customer_id
from `market.customer_purchases`
```

```
select
    market_date, customer_id
from `market.customer_purchases`
group by market_date, customer_id
order by 1
```

```
-- Question: Count the number of purchases each customer made  
-- per market date
```

```
select  
    market_date,  
    customer_id,  
    count(*) as num_purchases  
from `market.customer_purchases`  
group by market_date, customer_id
```

```
-- Alternate Question: Calculate the total quantity purchased  
by each  
-- customer per market_date.
```

```
select  
    market_date,  
    customer_id,  
    sum(quantity) as num_purchases  
from `market.customer_purchases`  
group by market_date, customer_id
```

```
-- Slightly complex question: How many different kinds of  
products
```

```
-- were purchased by each customer on each market date?
```

```
select  
  market_date,  
  customer_id,  
  count(distinct product_id) as no_unique_products  
from `market.customer_purchases`  
group by market_date, customer_id
```