

```
-- 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
```