```
SELECT * FROM `bootcamp-402414.data_analytic.super_store`
LIMIT 10;
select customer_id, order_date, ship_date
FROM `bootcamp-402414.data_analytic.super_store`
LIMIT 10;
--- DATE_ADD(date_expression, INTERVAL int64_expression date_part)
SELECT DATE_ADD(DATE '2023-10-22', INTERVAL 5 DAY) AS five_days_later; --- 2023-10-27
SELECT DATE_ADD(DATE '2023-10-22', INTERVAL 10 DAY) AS ten_days_later; --- 2023-11-01
SELECT DATE_ADD(DATE '2023-10-22', INTERVAL -10 DAY) AS ten_days_back; --- 2023-10-12
select customer_id, Product_name, order_date, ship_date
, DATE_ADD(ship_date, INTERVAL 10 DAY) AS ten_days_later_from_ship_date
, DATE_ADD(ship_date, INTERVAL 1 MONTH) AS a_month_later_from_ship_date
, DATE_DIFF(ship_date, order_date, DAY) AS days_diff
FROM `bootcamp-402414.data_analytic.super_store`
limit 10;
select * from
 (
 select product_name
  , count(*) as total_trx
  , min(days_diff) as min_days_diff
  , max(days_diff) as max_days_diff
  , avg(days_diff) as avg_days_diff
 from
     select customer_id, Product_name, order_date, ship_date
      , DATE_ADD(ship_date, INTERVAL 10 DAY) AS ten_days_later_from_ship_date
      , DATE_ADD(ship_date, INTERVAL 1 MONTH) AS a_month_later_from_ship_date
      , DATE_DIFF(ship_date, order_date, DAY) AS days_diff
     FROM `bootcamp-402414.data_analytic.super_store`
      ) as x
 --- where total_trx > 50
 group by product_name
 --- order by avg_days_diff asc
 having total_trx > 10
  ) as y
order by 5 asc ;
 select ship_mode
  , count(*) as total_trx
  , min(days_diff) as min_days_diff
  , max(days_diff) as max_days_diff
  , avg(days_diff) as avg_days_diff
 from
      (
```

```
select customer_id, Product_name, order_date, ship_date, ship_mode
      , DATE_ADD(ship_date, INTERVAL 10 DAY) AS ten_days_later_from_ship_date
      , DATE_ADD(ship_date, INTERVAL 1 MONTH) AS a_month_later_from_ship_date
      , DATE_DIFF(ship_date, order_date, DAY) AS days_diff
     FROM `bootcamp-402414.data_analytic.super_store`
      ) as x
 group by ship_mode
--- DATE_DIFF(date_expression_a, date_expression_b, date_part)
SELECT DATE_DIFF(DATE '2023-10-22', DATE '2023-10-28', DAY) AS days_diff; --- (-6)
SELECT DATE_DIFF(DATE '2023-10-28', DATE '2023-10-22', DAY) AS days_diff; --- 6
SELECT
 DATE_DIFF(DATE '2023-10-25', DATE '2023-10-23', DAY) AS days_diff,
 DATE_DIFF(DATE '2023-10-25', DATE '2023-10-23', WEEK) AS weeks_diff,
 DATE_DIFF(DATE '2023-10-25', DATE '2023-10-20', WEEK) AS weeks_diff,
 DATE_DIFF(DATE '2023-10-25', DATE '2020-10-20', YEAR) AS year_diff,
--- DATE_SUB(date_expression, INTERVAL int64_expression date_part)
SELECT
 DATE_ADD(DATE '2023-10-22', INTERVAL 5 DAY) AS five_days_later,
 DATE_ADD(DATE '2023-10-22', INTERVAL -5 DAY) AS five_days_ago,
 DATE_SUB(DATE '2023-10-22', INTERVAL 5 DAY) AS five_days_ago
     select customer_id, Product_name, order_date, ship_date, ship_mode
      , DATE_ADD(ship_date, INTERVAL 10 DAY) AS ten_days_later_from_ship_date
      , DATE_ADD(ship_date, INTERVAL 1 MONTH) AS a_month_later_from_ship_date
      , DATE_SUB(ship_date, INTERVAL 10 DAY) AS ten_days_before_from_ship_date
      , DATE_DIFF(ship_date, order_date, DAY) AS days_diff
     FROM `bootcamp-402414.data_analytic.super_store`
     limit 10;
--- EXTRACT
select customer_id
, ship_date
, extract(day from ship_date) as ship_date_day
FROM `bootcamp-402414.data_analytic.super_store`
limit 10;
```

```
--- FORMAT DATE
SELECT FORMAT_DATE('%b-%d-%Y', DATE '2008-12-25') AS formatted;
SELECT FORMAT_DATE('%b %Y', DATE '2008-12-25') AS formatted;
-- This works because elements on both sides match.
SELECT PARSE_DATE('%A %b %e %Y', 'Thursday Dec 25 2008')
-- This produces an error because the year element is in different locations.
SELECT PARSE_DATE('%Y %A %b %e', 'Thursday Dec 25 2008')
-- This produces an error because one of the year elements is missing.
SELECT PARSE_DATE('%A %b %e', 'Thursday Dec 25 2008')
-- This works because %F can find all matching elements in date_string.
SELECT PARSE_DATE('%F', '2000-12-30')
--- MM/DD/YY
SELECT ship_date
, extract(day from ship_date) as ship_date_day
FROM `bootcamp-402414.data_analytic.super_store`
limit 10;
--- YYYYMMDD
SELECT PARSE_DATE('%Y%m%d', '20081225') AS parsed;
----- Super Store
select current_date() as date_now ;
--- DATE_ADD(date_expression, INTERVAL int64_expression date_part)
SELECT
 DATE_ADD(DATE '2023-10-22', INTERVAL 5 DAY) AS five_days_later,
 DATE_ADD(DATE '2023-10-22', INTERVAL 10 DAY) AS ten_days_later ;
select *
FROM `bootcamp-402414.data_analytic.super_store`
limit 10;
select customer_id, product_name
from `bootcamp-402414.data_analytic.super_store`
where category in
   (
   select category from `bootcamp-402414.data_analytic.super_store`
```

```
where category in ('Furniture', 'Technology')
    )
select customer_id
, Quantity
, case
   when Quantity < 5 then 'Small'
   --- when Quantity between 5 and 10 then 'Medium'
   when Quantity >= 5 and Quantity <= 10 then 'Medium'
   else 'Large'
   end as Quantity_group
from `bootcamp-402414.data_analytic.super_store`
limit 10 ;
select Quantity_group
, count(*) as total
from
 select customer_id
  , Quantity
  , case
     when Quantity < 5 then 'Small'
      --- when Quantity between 5 and 10 then 'Medium'
     when Quantity >= 5 and Quantity <= 10 then 'Medium'
     else 'Large'
     end as Quantity_group
 from `bootcamp-402414.data_analytic.super_store`
 ) x
group by Quantity_group
order by 2 desc ;
select order_date, quantity, region
from `bootcamp-402414.data_analytic.super_store`
limit 10:
--- Central, East, South, West
select order_date
, sum(quantity) as total_quantity
, sum(case when region = 'Central' then quantity end) as Central_quantity
, sum(case when region = 'East' then quantity end) as East_quantity
, sum(case when region = 'South' then quantity end) as South_quantity
, sum(case when region = 'West' then quantity end) as West_quantity
from `bootcamp-402414.data_analytic.super_store`
group by 1;
select order_date, region,
, sum(quantity) as total_quantity
from `bootcamp-402414.data_analytic.super_store`
group by 1,2;
select sub_category
, sum(quantity) as quantity
```

```
fromselect order_date, region,
, sum(quantity) as total_quantity
from `bootcamp-402414.data_analytic.super_store`
group by 1,2 ;
group by sub_category
;

select category, ship_mode
, sum(quantity)
from `bootcamp-402414.data_analytic.super_store`
group by category, ship_mode ;

select ship_date
, last_day(ship_date, month) as last
from `bootcamp-402414.data_analytic.super_store`
```