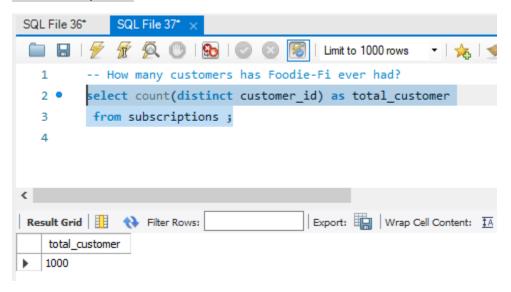
Question: 1 How many customers has Foodie-Fi ever had?

Answer:select count(distinct customer_id) as total_customer

from subscriptions;



Question: 2 What is the monthly distribution of trial plan start_date values for our dataset - use the start

of the month as the group by value

select month(start_date) from subscriptions;

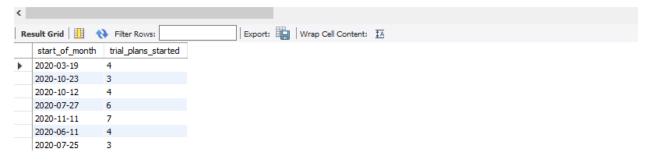
select start_date as start_of_month,count(*) AS trial_plans_started

FROM subscriptions s

Join plans p on s.plan_id=p.plan_id

WHERE p.Plan_name = 'trial'

group by start_date;



Question 3: What plan start_date values occur after the year 2020 for our dataset? Show the breakdown

by count of events for each plan_name

select start_date,plan_name,Count(*) AS count_of_event

From plans p

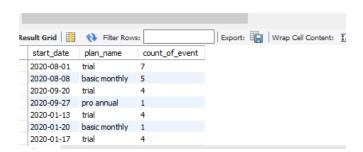
join subscriptions s on p.plan_id=s.plan_id

where start date>'2020-01-01'

group by start_date, plan_name;

```
/*What plan start_date values occur after the year 2020 for
by count of events for each plan_name*/
select start_date,plan_name,Count(*) AS count_of_event

From plans p
join subscriptions s on p.plan_id=s.plan_id
where start_date>'2020-01-01'
group by start_date, plan_name;
```



Question 4: What is the customer count and percentage of customers who have churned rounded to 1 decimal place?

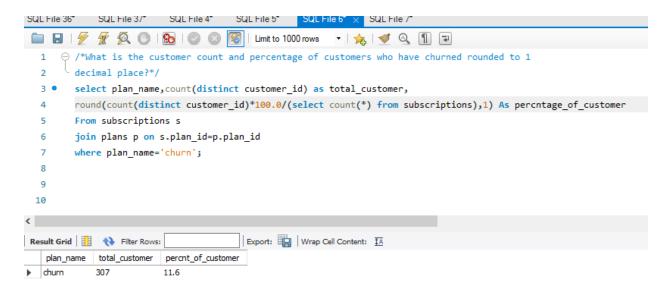
select plan_name,count(distinct customer_id) as total_customer,

round(count(distinct customer_id)*100.0/(select count(*) from subscriptions),1) As percntage_of_customer

From subscriptions s

join plans p on s.plan_id=p.plan_id

where plan_name='churn';



/*Question 5:How many customers have churned straight after their initial free trial - what percentage is this rounded to the nearest whole number?*/

with cte as(

select *,

lag(plan_id,1)over(partition by customer_id order by plan_id) as previous_plan

from subscriptions)

select count(previous plan) as No of churn,

round(count(*)*100/(select count(distinct customer_id)from subscriptions),0) from cte

where plan id=4 and previous plan=0

```
this rounded to the nearest whole number?*/
    • ⊖ with cte as(
         select *,
  4
         lag(plan_id,1)over(partition by customer_id order by plan_id) as previous_plan
  5
         from subscriptions)
         select count(previous_plan) as No_of_churn,
         round(count(*)*100/(select count(distinct customer_id)from subscriptions),0) from cte
  8
         where plan_id=4 and previous_plan=0
  9
 10
 11
Result Grid | Filter Rows:
                                       Export: Wrap Cell Content: IA
               round(count(*)*100/(select count(distinct
   No_of_churn
               customer_id)from subscriptions),0)
▶ 92
```

Question: 6 What is the number and percentage of customer plans after their initial free trial?

```
WITH cte AS (

SELECT *,

lead(plan_id,1)over(partition by customer_id order by plan_id) as next_plan from subscriptions)

select next_plan,count(*) as num_of_customer,

round(count(*)*100/(select count(distinct Customer_id)from subscriptions),1) as

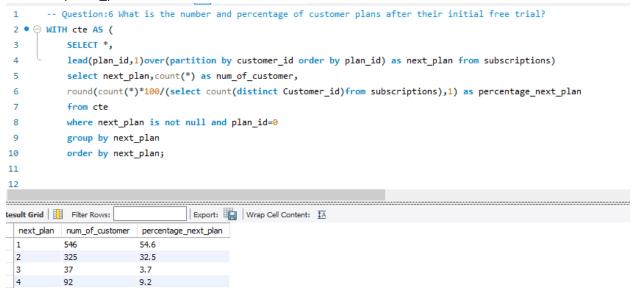
percentage_next_plan

from cte

where next_plan is not null and plan_id=0

group by next_plan
```

order by next_plan;



Question: 7. What is the customer count and percentage breakdown of all 5 plan_name values at 2020-

12-31?

select plan_name,Count(distinct customer_id) as total_customer,

Round(count(distinct customer_id)*100.0/(select count(*) from Subscriptions),2) as percent

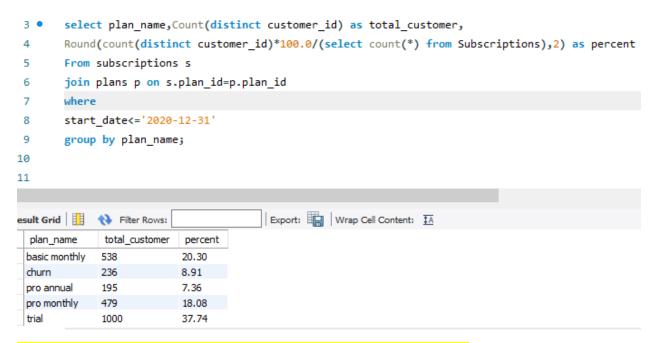
From subscriptions s

join plans p on s.plan_id=p.plan_id

where

start_date<='2020-12-31'

group by plan_name;



Question:8 How many customers have upgraded to an annual plan in 2020?

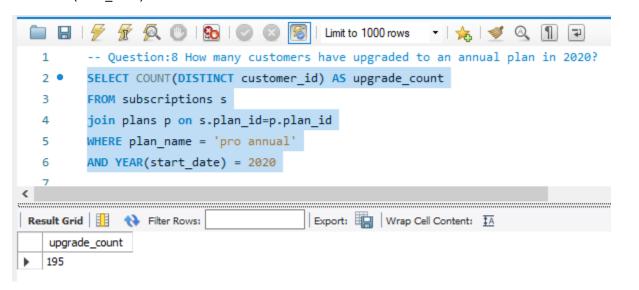
SELECT COUNT(DISTINCT customer_id) AS upgrade_count

FROM subscriptions s

join plans p on s.plan_id=p.plan_id

WHERE plan_name = 'pro annual'

AND YEAR(start_date) = 2020



Question: 9 How many days on average does it take for a customer to an annual plan from the day they

join Foodie-Fi?

SELECT

```
AVG(DATEDIFF(annual_plan.start_date, initial_subscription.start_date)) AS average_days_to_upgrade
FROM
  Subscriptions AS annual_plan
JOIN
  Subscriptions AS initial_subscription ON annual_plan.customer_id = initial_subscription.customer_id
JOIN
  Plans ON annual_plan.plan_id = Plans.plan_id
WHERE
  Plans.plan_name = 'pro annual'
  AND initial subscription.start date = (
    SELECT MIN(start_date)
    FROM Subscriptions
    WHERE customer_id = annual_plan.customer_id
  );
                                              Export: Wra
 Result Grid
                Filter Rows:
     average_days_to_upgrade
   104.6202
Question 11:How many customers downgraded from a pro monthly to a basic monthly plan in 2020?
SELECT COUNT(DISTINCT customer_id) AS downgrade_count
```

```
FROM subscriptions s

join plans p on s.plan_id=p.plan_id

WHERE plan_name = 'basic monthly'

AND customer_id IN (

SELECT customer_id

FROM subscriptions

WHERE plan_name = 'pro monthly'

AND start_date >= '2020-01-01'

AND start_date < '2021-12-30' );
```

```
-- Question 11:How many customers downgraded from a pro
  1
       SELECT COUNT(DISTINCT customer_id) AS downgrade_count
  2 •
  3
       FROM subscriptions s
       join plans p on s.plan_id=p.plan_id
  4
       WHERE plan_name = 'basic monthly'
  5
  6
     7
          SELECT customer_id
       FROM subscriptions
  8
          WHERE plan_name = 'pro monthly'
  9
          AND start_date >= '2020-01-01'
 10
          AND start_date < '2021-12-30'
 11
 12
       );
                                Export: Wrap Cell Content
downgrade_count
▶ 0
```