Case Study #3 - Foodie-Fi

1. How many customers has Foodie-Fi ever had?

```
SELECT
COUNT(DISTINCT customer_id) AS customer_count
FROM subscriptions
```

What is the monthly distribution of trial plan start_date values for our datasetuse the start of the month as the group by value

```
SELECT
   MONTH(start_date) AS month_of_year,
   COUNT(*) AS trial_plan_count
FROM subscriptions AS s
JOIN plans AS p ON s.plan_id = p.plan_id
WHERE plan_name = 'trial'
GROUP BY month_of_year
ORDER BY month_of_year
```

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
    s.plan_id,
    plan_name,
    COUNT(*) AS plan_count
FROM subscriptions AS s
JOIN plans AS p ON s.plan_id = p.plan_id
WHERE YEAR(start_date) > 2020
GROUP BY s.plan_id, plan_name
ORDER BY s.plan_id
```

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

```
SELECT
   SUM(
        IF(plan_name = 'churn',1,0)
        ) AS churn_count,
   ROUND(SUM(
        IF(plan_name = 'churn',1,0)
        )/COUNT(DISTINCT customer_id) *100,1) AS churn_count
FROM subscriptions AS s
JOIN plans AS p ON s.plan_id = p.plan_id
```

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

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

7. What is the customer count and percentage breakdown of all

```
5 plan_name values at 2020-12-31?
```

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

```
SELECT
COUNT(DISTINCT customer_id) as customer_count
FROM subscriptions
WHERE YEAR(start_date) = 2020 and plan_id = 3
```

9. How many days on average does it take for a customer to an annual plan from the day they join Foodie-Fi?

```
SELECT
    ROUND(AVG(TIMESTAMPDIFF(DAY, start_date, annual_date)),0) as
FROM subscriptions AS s1
JOIN (
    SELECT
        customer_id,
        start_date AS annual_date
    FROM subscriptions
    WHERE plan_id = 3) AS s2 ON s1.customer_id = s2.customer_id
WHERE plan_id = 0
```

10. Can you further breakdown this average value into 30 day periods (i.e. 0-30 days, 31-60 days etc)

```
GROUP BY period, period_month
ORDER BY period_month
```

11. How many customers downgraded from a pro monthly to a basic monthly plan in 2020?

```
SELECT

COUNT(DISTINCT customer_id) as customer_count

FROM

(SELECT

*,

LAG(plan_id) OVER (PARTITION BY customer_id) as previous

FROM subscriptions) as sub

WHERE plan_id = 2 and previous_plan = 3
```