Where are the customers?

Codeflix Churn Rates

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1. Who is Codeflix?

1. Who is Codeflix?

- On December 1st, 2016, Codeflix launched to new customers.
- 17 new subscribers signed up on that day.
- In the first month alone, 570 new subscribers joined Codeflix.
- Codeflix has been operating for 4 months, which provides us with 3 months of data regarding churn.
- During that time, 2 different segments of users have existed, segment 30 and segment 87.

MIN(subscription_start)	MAX(subscription_start)		
2016-12-01 2017-03-30			
launch_date_subscribers			
17			
december_2016_subscribers			
570			

```
SELECT MIN(subscription start),
      MAX (subscription start)
FROM subscriptions;
SELECT COUNT(*) as launch date subscribers
FROM subscriptions
WHERE subscription start = '2016-12-01';
SELECT COUNT(*) as december 2016 subscribers
FROM subscriptions
WHERE subscription start BETWEEN '2016-12-01' AND
'2016-12-31';
```

2. Where are the customers?

2. Where are the customers?

- Since launching to subscribers, there have been 2000 new subscribers...
- Of those new subscribers, 620 have cancelled their membership.
- As of 31 March 2017, there are 1380 current subscribers.
- The company as a whole experienced moderate churn, with a significant increase in the month of March.

new_subscribers	
2000	
cancellations	
620	
current_subscribers	
1380	

churn_rate
16.16%
18.98%
27.43%

3. What is working?

3. What is working?

- Based on the data for the first 3 months of 2017, segment 30 is far outpacing segment 87 in customer retention.
- With that in mind, segment 87 needs to be evaluated and compared to segment 30 to see if a cause can be determined as to why segment 30 is retaining customers compared to segment 80.

month	segment	churn_rate
Jan 2017	30	7.56%
Feb 2017	30	7.33%
Mar 2017	30	11.73%
Jan 2017	87	25.17%
Feb 2017	87	32.03%
Mar 2017	87	48.58%

3. What is working? SQL Code

```
WITH months AS
       (SELECT
      '2017-01-01' AS first day,
      '2017-01-31' AS last day
  UNTON
  SELECT
       '2017-02-01' AS first day,
      '2017-02-28' AS last day
  UNION
  SELECT
       '2017-03-01' AS first day,
      '2017-03-31' AS last day
 ),
cross join AS
       (SELECT *
 FROM subscriptions
 CROSS JOIN months
 ),
status AS
      (SELECT id,
  first day AS month,
  segment,
```

```
CASE
      WHEN (subscription start < first day)
      AND (subscription end >first day
       OR subscription end IS NULL
        ) THEN 1
      ELSE 0
  END as is active,
  CASE
   WHEN (subscription end BETWEEN first day AND last day)
THEN 1
    ELSE 0
    END AS is canceled
      FROM cross join
status aggregate AS (
 SELECT month,
      segment,
      SUM(is active) AS sum active,
   SUM(is canceled) AS sum canceled
  FROM status
 GROUP BY month, segment
SELECT
 month.
 segment,
 1.0 * sum canceled/sum active AS churn rate
FROM status aggregate
ORDER BY segment ASC;
```