

CODEFLIX, A STREAMING VIDEO STARTUP

FIRST QUARTER CHURN RATE

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CODEFLIX

- Began subscriptions on DECEMBER 1, 2016
 - monthly subscription service
 - subscriptions are not prorated

- It has been FOUR months, what is our CHURN RATE?
 - Will assess January 1, 2017 through March 31, 2017

- 1 SELECT MIN(subscription_start),
- 2 MAX(subscription_end)
- 3 FROM subscriptions;

FIRST MONTH	LAST MONTH
December 2016	March 2017

USERS

- Our service has TWO segments of users
- 1 SELECT DISTINCT segment
- 2 FROM subscriptions;

SEGMENT 87 30

WHAT IS THE CHURN RATE SINCE THE COMPANY STARTED?

```
status AS
    WITH months AS
                                        (SELECT id.
    (SELECT
                                          first_day as month,
       '2017-01-01' as first_day,
                                          CASE
       '2017-01-31' as last_day
                                            WHEN (subscription_start < first_day)
     UNION
                                              AND (subscription_end > first_day
                                    24
     SELECT
                                    25
                                                OR subscription_end IS NULL)
       '2017-02-01' as first_day,
                                            THEN 1
       '2017-02-28' as last_day
                                            ELSE 0
     UNION
                                          END as is_active.
                                    28
                                    29
                                          CASE
10
     SELECT
                                            WHEN (subscription_end BETWEEN first_day AND last_day)
       '2017-03-01' as first_day,
                                            THEN 1
       '2017-03-31' as last_day
                                            ELSE Ø
13
                                    33
                                          END as is_canceled
    cross_join AS
                                        FROM cross_join
    (SELECT *
                                        ٥,
    FROM subscriptions
                                        status aggregate AS
                                    36
    CROSS JOIN months
                                        (SELECT month,
18
                                          SUM(is_active) as sum_active,
                                    38
                                          SUM(is_canceled) as sur_canceled
                                        FROM status
                                        GROUP BY month
                                    42
                                        SELECT month.
                                          1.0 * sum_canceled/sum_active as churn_rate
                                         FROM status_aggregate;
```

MONTH	CHURN RATE
JANUARY 2017	16.2%
FEBRUARY 2017	19.0%
MARCH 2017	27.4%

OVERALL

45%

For every 2 persons who subscribed during the first four months, about 1 person has cancelled during that time period.

This was calculated using a temporary time table using 2016-12-01 as first day and 2017-03-31 as last day along with a temporary status table checking for subscription_end IS NULL for is_canceled and subscription_end IS NOT NULL for is_active

COMPARE CHURN RATES BETWEEN SEGMENTS

	CHURN RATE	
MONTH	Segment 87	Segment 30
JANUARY 2017	25.2%	7.6%
FEBRUARY 2017	32%	7.3%
MARCH 2017	48.6%	11.7%

Codeflix should focus on expanding subscribers from SEGMENT 30

```
WITH months AS
                                                                                         THEN 1
                                                  OR subscription_end IS NULL)
                                                                                         ELSE 0
CSELECT
                                                AND (segment - 87)
                                                                                       END as is canceled 30
  "2017-01-01" as first_day.
                                              THEN 1
  '2017-01-31' as last_day
                                              ELSE 0
                                                                                     FROM cross_join
 UNION
                                            END as is_active_87,
 SELECT
                                            CASE
                                                                                     status_aggregate AS
  '2017-02-01' as first_day,
                                              WHEN (subscription start < first day) (SELECT month,
  "2017-02-28" as last_day
                                                AND (subscription end > first day)
                                                                                       SUM(is_active_87) as sum_active_87,
 UNITON
                                                  OR subscription_end IS NULL)
                                                                                       SUM(is active 30) as sum active 30,
 SELECT
                                                AND (segment = 30)
                                                                                       SUM(is_canceled_87) as sum_canceled_87.
  "2017-03-01" as first day.
                                              THEN 1
                                                                                       SUM(is_canceled_30) as sum_canceled_30
  '2017-03-31' as last_day
                                              ELSE 0
                                                                                     FROM status
                                            END as is active 30.
                                                                                     GROUP BY month
cross_join AS
                                            CASE
(SELECT *
                                              WHEN (subscription_end BETWEEN
                                                                                     SELECT month.
FROM subscriptions
                                          first_day AND last_day)
                                                                                       1.0 * sum_canceled_87/sum_active_87 as
CROSS JOIN months
                                                AND (segment - 87)
                                                                                     churn_rate_87.
                                              THEN 1
                                                                                       1.0 * sum canceled 30/sum active 30 as
status AS
                                              ELSE 0
                                                                                     churn rate 30
(SELECT id.
                                            END as is_canceled_87.
                                                                                     FROM status_aggregate;
  first day as month,
                                            CASE
  CASE
                                              WHEN (subscription end BETWEEN
    WHEN (subscription start < first day) first day AND last day).
      AND (subscription_end > first_day
                                                AND (segment = 30)
```

CONCLUSIONS

- Codeflix has been accepting subscriptions for four consecutive months
 - December 2016 through March 2017
- Our subscribers are divided among two segments
 - Segment 87
 - Segment 30
- Overall our churn rate has been increasing each month
 - ▶ Most recent: 27.4%
- ▶ However, this rate is heavily influenced by the subscribers is Segment 87
 - Churn rate is 3-5x higher than the rate of Segment 30
- Codeflix should begin to focus on building subscribers within Segment 30