Zapier Monthly Active Users Analysis

Thought process

Definitions:

- A user is considered active when he has, at least, one task in the past 28 days;
- A user is considered churn during the 28 days following their last day active, unless they become active again.
- 1. Find periods where a user is active
 - a. Find a day with *sum_tasks_used* greater than zero, for any account, and set that day as the start for the activity period for a user
 - b. Set the end of the activity period as 28 days after the start
- 2. Condense activity time periods
 - a. Since a user might perform more tasks within a previous activity period, there'll be overlapping activity periods
 - b. This step packs all the dates, ensuring a holistic perspective on activity periods per user
- 3. Find periods where a user can become churn
 - a. Between activity periods, there can be gaps where a user can be churn (due to no activity in the previous 28 days)
- 4. Find periods where a user is churn
 - For each period of active (condensed as per step 2) find the possible churn period by creating periods starting one day after the last activity day and ending 29 after
 - b. Match this last period to the possible periods a user can be churn (as per step 3)
- 5. Add missing dates to the dataset
 - a. In the original data there are, for some users, missing days in the period that goes from 2017-01-01 to 2017-06-01, cross joining the data with a table that has all the possible days for that period will ensure no days are missing for the analysis
 - b. Using the periods of churn and activity it's possible to identify the status of a user each day

Views with key data for analysis

monthly_new_users

Grouped monthly data for:

- Number of churn users
- Monthly active users
- Users at the start of the month (number of active users on the first day of the month)

monthly_new_users

Grouped monthly data for:

• New users for that month (their first activity is within that month)

user_days

Grouped data per user, regarding:

- Number of days in churn state
- Number of active days
- Total tasks performed
- Total number of accounts

avg_churn_dur

Grouped data per user, regarding:

- Average length of churn periods
- Number of churn periods

Note: All data is between 2017-01-01 to 2017-06-01