WITH

vars AS (

SELECT

TIMESTAMP("{START\_TIME}") AS start\_date,

TIMESTAMP("{END\_TIME}") AS end\_date

),

ads\_engagement AS (

SELECT

userId64 as userId,

promotedTweetId as tweetId,

UNIX\_MILLIS(timestamp) AS tsMillis,

lineItemId

FROM `twttr-rev-core-data-prod.core\_served\_impressions.spend`, vars

WHERE TIMESTAMP(\_batchEnd) >= vars.start\_date AND TIMESTAMP(\_batchEnd) <= vars.end\_date

AND

engagementType IN ({CONTRIBUTING\_ACTION\_TYPES\_STR})

AND lineItemObjective != 9 -- not pre-roll ads

),

line\_items AS (

SELECT

id AS lineItemId,

end\_time.posixTime AS endTime

FROM

`twttr-rev-core-data-prod.rev\_ads\_production.line\_items`

)

SELECT

userId,

tweetId,

tsMillis

FROM ads\_engagement JOIN line\_items USING(lineItemId), vars

WHERE

line\_items.endTime IS NULL

OR TIMESTAMP\_MILLIS(line\_items.endTime) >= vars.end\_date