-- Count the number of non-repeated active, expired and repeated posts.

-- Do not include repeats in the active-only bucket.

WITH post\_snapshot AS (

-- For each post snapshot, tag whether the snapshot is active or expired

-- This label is required to remove repeats.

SELECT post\_id, advertiser\_id, timestamp,

CASE WHEN ('2019-09-11' - timestamp) <= 30 THEN 1

ELSE 0

END AS snapshot\_active,

CASE WHEN ('2019-09-11' - timestamp) > 30 THEN 1

ELSE 0

END AS snapshot\_expired

FROM job\_postings

),

post\_status AS (

-- Tag a post as active, expired, repeat given the logic: If the post

-- contains 1 snapshot that's active and no snapshot expired, then it's

-- active-only. If it contains no active and multiple expired snapshots,

-- then it's expired. All other post instances are repeats.

SELECT post\_id, advertiser\_id,

CASE WHEN current\_active = 1 AND number\_of\_expired = 0 THEN 'Active'

WHEN current\_active = 0 AND number\_of\_expired > 0 THEN 'Expired'

ELSE 'Repeat'

END AS status

FROM (

-- For each post, count the number of snapshots that were active

-- and expired. This will determine whether the post is active-only,

-- expired or repeat.

SELECT post\_id, advertiser\_id,

SUM(snapshot\_active) AS current\_active,

SUM(snapshot\_expired) AS number\_of\_expired

FROM post\_snapshot

GROUP BY 1, 2

) t

)

-- Using post\_status, count the number of instances.

SELECT status,

COUNT(\*) AS counts

FROM post\_status

GROUP BY 1;