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1 SELECT
2   COUNT(TR.bikeid) AS trip_count,
3   TR.usertype,
4   ZIPSTARTNAME.zip AS ZIP_START,
5   ZIPSTARTNAME.borough AS BOROUGH_START,
6   ZIPSTARTNAME.neighborhood AS NEIGHBORHOOD_START,
7   ZIPENDNAME.zip AS ZIP_END,
8   ZIPENDNAME.borough AS BOROUGH_END,
9   ZIPENDNAME.neighborhood AS NEIGHBORHOOD_END,
10  --I will add 7 years to make the Dashboard look recent
11  DATE_ADD(DATE(TR.starttime), INTERVAL 7 YEAR) AS start_day,
12  DATE_ADD(DATE(TR.stoptime), INTERVAL 7 YEAR) AS stop_day,
13  NOAA.temp AS day_mean_temperature, -- Mean temp
14  NOAA.wdsp AS day_mean_wind_speed, -- Mean wind speed
15  NOAA.prp AS day_total_precipitation, -- Total precipitation
16  -- Group trips into 10 minute intervals to reduces the number of rows
17  ROUND(CAST(TR.tripduration / 60 AS INT64), -1) AS trip_minutes
18 FROM
19   bigquery-public-data.new_york_citibike.citibike_trips AS TR
20 INNER JOIN
21   bigquery-public-data.geo_us_boundaries.zip_codes AS ZIP_START
22 ON
23   ST_WITHIN(
24     ST_GEOGPOINT(TR.start_station_longitude, TR.start_station_latitude),
25     ZIP_START.zip_code_geom
26   )
27 INNER JOIN
28   bigquery-public-data.geo_us_boundaries.zip_codes AS ZIP_END
29 ON
30   ST_WITHIN(
31     ST_GEOGPOINT(TR.end_station_longitude, TR.end_station_latitude),
32     ZIP_END.zip_code_geom
33   )
34 INNER JOIN
35   `bigquery-public-data.noaa_gsod.gsod20*` AS NOAA
36 ON
37   PARSE_DATE("%Y%m%d", CONCAT(NOAA.year, NOAA.mo, NOAA.da)) = DATE(TR.starttime)
38 INNER JOIN
39   cyclistic-nyc-zip-codes.zip_codes.cyclistic_zip_codes AS ZIPSTARTNAME
40 ON
41   ZIP_START.zip_code = CAST(ZIPSTARTNAME.zip AS STRING)
42 INNER JOIN
43   cyclistic-nyc-zip-codes.zip_codes.cyclistic_zip_codes AS ZIPENDNAME
44 ON
45   ZIP_END.zip_code = CAST(ZIPENDNAME.zip AS STRING)
46 WHERE
47   -- This takes the weather data from one weather station
48   NOAA.wban = '94728' -- NEW YORK CENTRAL PARK
49   -- Use data for three summer months
50   AND EXTRACT(YEAR FROM DATE(TR.starttime)) BETWEEN 2014 AND 2015
51 GROUP BY
52   2,
53   3,
54   4,
55   5,
56   6,
57   7,
58   8,
59   9,
60   10,
61   11,
62   12,
63   13,
64   14
65

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