Entire Year

SELECT

  TRI.usertype,

  ZIPSTART.zip\_code AS zip\_code\_start,

  ZIPSTARTNAME.borough borough\_start,

  ZIPSTARTNAME.neighborhood AS neighborhood\_start,

  ZIPEND.zip\_code AS zip\_code\_end,

  ZIPENDNAME.borough borough\_end,

  ZIPENDNAME.neighborhood AS neighborhood\_end,

  -- Since this is a fictional dashboard, you can add 5 years to make it look recent

  DATE\_ADD(DATE(TRI.starttime), INTERVAL 5 YEAR) AS start\_day,

  DATE\_ADD(DATE(TRI.stoptime), INTERVAL 5 YEAR) AS stop\_day,

  WEA.temp AS day\_mean\_temperature, -- Mean temp

  WEA.wdsp AS day\_mean\_wind\_speed, -- Mean wind speed

  WEA.prcp day\_total\_precipitation, -- Total precipitation

  -- Group trips into 10 minute intervals to reduces the number of rows

  ROUND(CAST(TRI.tripduration / 60 AS INT64), -1) AS trip\_minutes,

  COUNT(TRI.bikeid) AS trip\_count

FROM

  `bigquery-public-data.new\_york\_citibike.citibike\_trips` AS TRI

INNER JOIN

  `bigquery-public-data.geo\_us\_boundaries.zip\_codes` ZIPSTART

  ON ST\_WITHIN(

    ST\_GEOGPOINT(TRI.start\_station\_longitude, TRI.start\_station\_latitude),

    ZIPSTART.zip\_code\_geom)

INNER JOIN

  `bigquery-public-data.geo\_us\_boundaries.zip\_codes` ZIPEND

  ON ST\_WITHIN(

    ST\_GEOGPOINT(TRI.end\_station\_longitude, TRI.end\_station\_latitude),

    ZIPEND.zip\_code\_geom)

INNER JOIN

  `bigquery-public-data.noaa\_gsod.gsod20\*` AS WEA

  ON PARSE\_DATE("%Y%m%d", CONCAT(WEA.year, WEA.mo, WEA.da)) = DATE(TRI.starttime)

INNER JOIN

  -- Note! Add your zip code table name, enclosed in backticks: `example\_table`

  `(insert your table name) zipcodes` AS ZIPSTARTNAME

  ON ZIPSTART.zip\_code = CAST(ZIPSTARTNAME.zip AS STRING)

INNER JOIN

  -- Note! Add your zipcode table name, enclosed in backticks: `example\_table`

  `(insert your table name) zipcodes` AS ZIPENDNAME

  ON ZIPEND.zip\_code = CAST(ZIPENDNAME.zip AS STRING)

WHERE

  -- This takes the weather data from one weather station

  WEA.wban = '94728' -- NEW YORK CENTRAL PARK

  -- Use data from 2014 and 2015

  AND EXTRACT(YEAR FROM DATE(TRI.starttime)) BETWEEN 2014 AND 2015

GROUP BY

  1,

  2,

  3,

  4,

  5,

  6,

  7,

  8,

  9,

  10,

  11,

  12,

  13

SUMMER

SELECT

 TRI.usertype,

 TRI.start\_station\_longitude,

 TRI.start\_station\_latitude,

 TRI.end\_station\_longitude,

 TRI.end\_station\_latitude,

 ZIPSTART.zip\_code AS zip\_code\_start,

 ZIPSTARTNAME.borough borough\_start,

 ZIPSTARTNAME.neighborhood AS neighborhood\_start,

 ZIPEND.zip\_code AS zip\_code\_end,

  ZIPENDNAME.borough borough\_end,

  ZIPENDNAME.neighborhood AS neighborhood\_end,

 -- Since we're using trips from 2014 and 2015, we will add 5 years to make it look recent

  DATE\_ADD(DATE(TRI.starttime), INTERVAL 5 YEAR) AS start\_day,

 DATE\_ADD(DATE(TRI.stoptime), INTERVAL 5 YEAR) AS stop\_day,

  WEA.temp AS day\_mean\_temperature, -- Mean temp

 WEA.wdsp AS day\_mean\_wind\_speed, -- Mean wind speed

  WEA.prcp day\_total\_precipitation, -- Total precipitation

  -- We will group trips into 10 minute intervals, which also reduces the number of rows

ROUND(CAST(TRI.tripduration / 60 AS INT64), -1) AS trip\_minutes,

 TRI.bikeid

FROM

 `bigquery-public-data.new\_york\_citibike.citibike\_trips` AS TRI

INNER JOIN

`bigquery-public-data.geo\_us\_boundaries.zip\_codes` ZIPSTART

ON ST\_WITHIN(

ST\_GEOGPOINT(TRI.start\_station\_longitude, TRI.start\_station\_latitude),

 ZIPSTART.zip\_code\_geom)

INNER JOIN

`bigquery-public-data.geo\_us\_boundaries.zip\_codes` ZIPEND

ON ST\_WITHIN(

 ST\_GEOGPOINT(TRI.end\_station\_longitude, TRI.end\_station\_latitude),

ZIPEND.zip\_code\_geom)

INNER JOIN

 -- https://pantheon.corp.google.com/bigquery?p=bigquery-public-data&d=noaa\_gsod

 `bigquery-public-data.noaa\_gsod.gsod20\*` AS WEA

 ON PARSE\_DATE("%Y%m%d", CONCAT(WEA.year, WEA.mo, WEA.da)) = DATE(TRI.starttime)

INNER JOIN

-- Note! Add your zipcode table name, enclosed in backticks: `example\_table`

`analog-gearing-372710.cyclistic.zip\_codes` AS ZIPSTARTNAME

ON ZIPSTART.zip\_code = CAST(ZIPSTARTNAME.zip AS STRING)

INNER JOIN

 -- Note! Add your zipcode table name below, enclosed in backticks: `example\_table`

  `analog-gearing-372710.cyclistic.zip\_codes` AS ZIPENDNAME

   ON ZIPEND.zip\_code = CAST(ZIPENDNAME.zip AS STRING)

WHERE

-- Take the weather from one weather station

  WEA.wban = '94728' -- NEW YORK CENTRAL PARK

 -- Use data for three summer months

AND DATE(TRI.starttime) BETWEEN DATE('2015-07-01') AND DATE('2015-09-30')