# Code in BigQuery to create a target table:

```
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,
  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`
  `example_table 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`
  ` example_table 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
```