```
Activity 1
 CREATE TABLE gps_data (
     datapoint_id varchar(50),
     journey_id varchar(50),
     latitude float,
     longitude float,
     month int,
     day int,
     hour int,
     Primary key (datapoint_id)
 );
 CREATE TABLE vehicle_data (
     datapoint_id varchar(50),
     geohash varchar(50),
     speed float,
     make char(50),
     model char(50),
     route_id char(50),
     segment_start_measure float,
     Primary key (datapoint_id)
 );
```

```
-- Step 1: Drop the table if it exists
DROP TABLE IF EXISTS gps_data;
-- Step 2: Recreate the table
CREATE TABLE gps data (
    datapoint_id varchar(50),
    journey id varchar(50),
    latitude float,
   longitude float,
   month int,
    day int,
   hour int,
    PRIMARY KEY (datapoint_id)
);
-- Step 3: Import data from the CSV file
-- Duplicate key violations will cause the offending row to be skipped
COPY gps data(datapoint id, journey id, latitude, longitude, month, day, hour)
FROM 'C:\Users\Public\gps data.csv'
DELIMITER ','
CSV HEADER;
                                          \downarrow
```

```
Activity #2

SELECT *

FROM gps_data

WHERE month = 10 AND

day = 3 AND

hour = 4;

SELECT COUNT(*)

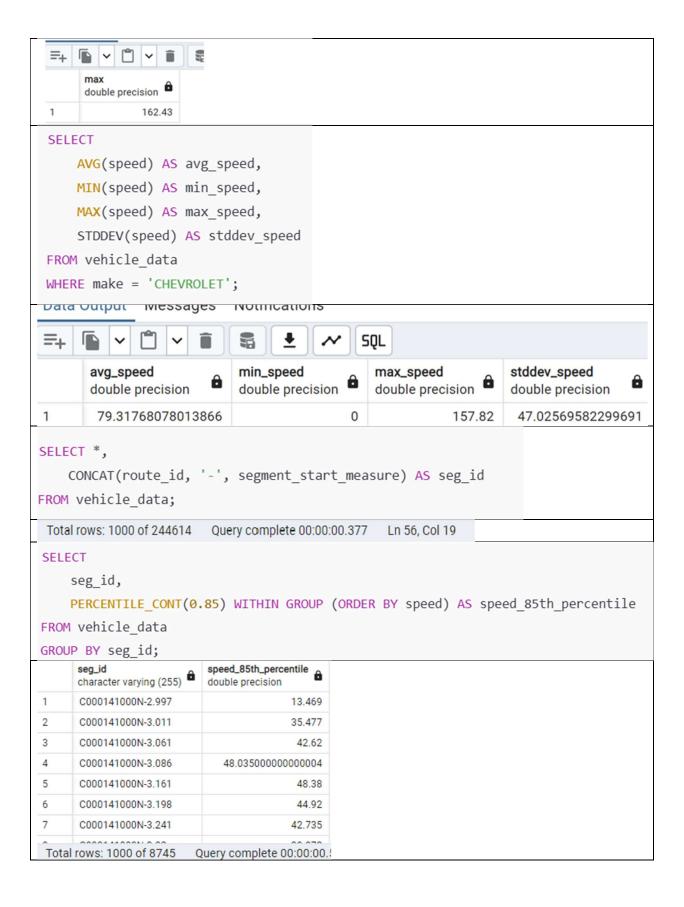
FROM gps_data;
```



```
Activity #3

SELECT MAX(speed) AS max_speed

FROM vehicle_data;
```



```
SELECT
    model,
    PERCENTILE_CONT(0.95) WITHIN GROUP (ORDER BY speed) AS speed_95th_percentile
FROM vehicle_data
GROUP BY model;
                                   speed_95th_percentile
      model
      character (50)
                                   double precision
       ACADIA
1
                                                 126.71
2
       ATS
                                                 118.65
3
      AVEO_SONIC
                                                 130.17
4
       BLAZER
                                                 126.71
 5
       CAMARO
                                                 127.87
6
       CANYON
                                                  80.64
7
       COLORADO
                                                 129.02
 Total rows: 34 of 34
                      Query complete 00:00:00.228
                                                  Ln 78
```

```
SELECT
   gps_data.datapoint_id,
   gps_data.journey_id,
   gps_data.speed,
   vehicle_data.seg_id
FROM
   gps_data
JOIN
   vehicle_data
ON
   gps_data.datapoint_id = vehicle_data.datapoint_id;
                        Total rows: 1000 of 244614
 SELECT
     COUNT(DISTINCT gps_data.journey_id) AS unique_journeys_stopped
 FROM
     gps_data
 JOIN
     vehicle_data
 ON
     gps data.datapoint id = vehicle data.datapoint id
 WHERE
     vehicle_data.speed = 0;
       bigint
 1
           646
```