/* This .sql file contains all the commands and processes used to extract the relevant data from the Database provided by Udacity's project portal.

-- STEP 1 (To see which cities are available for "Turkey" and "United Kingdom" in the given dataset)

SELECT *
        FROM city_list
   WHERE country LIKE 'Turkey'

SELECT *
        FROM city_list
   WHERE country LIKE 'United Kingdom'

-- So I have chosen "Istanbul" and "London"

-- STEP 2
/* Both city_data and global_data contains same column named 'avg_temp'.
I changed the column names in order to extract the joined table

ALTER TABLE city_data RENAME COLUMN avg_temp to CityAverageTemp;
ALTER TABLE global_data RENAME COLUMN avg_temp to GlobalAverageTemp;

-- STEP 3 (Extraction)

SELECT global_data.year, global_data.GlobalAverageTemp, city_data.CityAverageTemp
FROM global_data JOIN city_data   -- Joining the two tables
ON global_data.year = city_data.year   -- reference for joining
WHERE city LIKE 'Istanbul';

SELECT global_data.year, global_data.GlobalAverageTemp, city_data.CityAverageTemp
FROM global_data JOIN city_data   -- Joining the two tables
ON global_data.year = city_data.year   -- reference for joining
WHERE city LIKE 'London';

-- So I extracted the data with 3 columns as CSV file option for Istanbul and London separately.