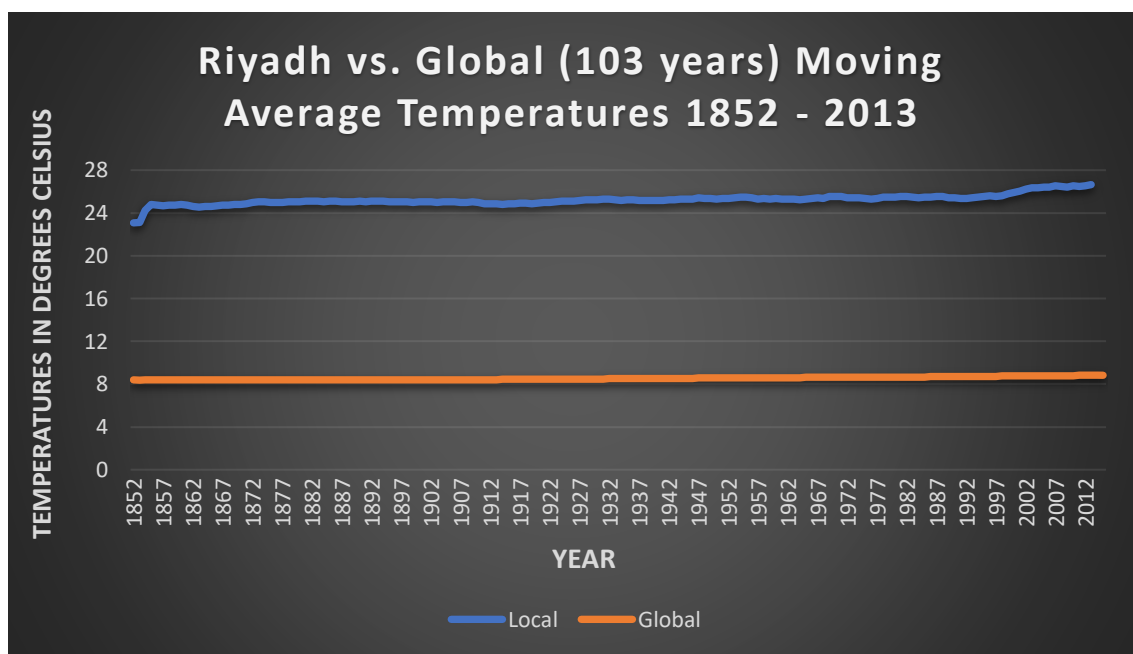# Exploring Weather Trends

Introduction

This report has two parts. The first part is focusing on data preparation steps and the second part is about similarities and differences between Riyadh city and world temperature degrees.

Steps of data preparation

- Extract the temperature data for the world as well as for Riyadh city from the database using SQL queries

    - **City data table**
      ```
      1   SELECT *
      2   FROM city_data
      ```
    - **Global data table**
      ```
      1   SELECT *
      2   FROM global_data
      ```

- Manipulate the data in Excel sheet by calculate 103-year moving average for global temperature and 10-year moving average for Riyadh city
- Create line chart to clarify the differences between Riyadh city and world temperature degrees

This line chart depicts the temperature degrees for Riyadh city and the whole world between 1852 and 2008.It's clear from the graph that the temperature degrees in Riyadh city higher than the temperature degrees in the rest of the world.

According to what is shown, Riyadh and global temperatures degrees illustrated similar pattern. Both sides increased gradually for example the temperature degrees in Riyadh increased from 23 to 27 in 2013 while in the rest of the world from 8 to 9.

To sum up, we could say the weather in Riyadh hotter than the rest of the world during all the past years.