Data Available:

Weather data of Australian cities, we are going to work on selected cities.

Data source: <https://rdrr.io/cran/rattle.data/man/weatherAUS.html>

Data Format: csv file

Following columns exist within dataset:

Date, Location, Temperature, Rainfall, Evaporation, Sunshine, Wind direction and speed, humidity, pressure, cloudiness and the chance of rain.

Project Questions:

The following analyses will be performed on the selected cities of the dataset:

1. How is the effect of temperature changes on other weather parameters like rainfall, humidity, evaporation and pressure?
2. How are the changes in eastern coast compared with the western coast?
3. What is the advice for certain industries who are the most affected by the weather changes?

Project Objective:

The aim of this study is to give advice on those industrial sectors which are mostly affected by weather changes. These sectors are:

* Agriculture,
* Insurance,
* Tourism,

The following sectors are considered optional for the analysis:

* Mining,
* Construction,
* Retail,
* Beverage,

Works to be done:

Week 10, Alchemy, Session 3, No. 10

The database should have at least three views (three independent tables)

Taking lat and lon of each city, API (week 6), 1, 3 and then store in Data Frame

Database creation procedure:

1. Read CSV file and data cleanse the dataset  
   2. get the unique city names  
   3. get lat and lon from openweatherapi - Chapter 6>1>3rd activity store the values into dataframes.  
   4. create QR Diagram to show relationship with PK and FK  
   5. create a postgres script which can be run in the database to create the table  
   6. use these table to upload the csv.  
   7. create 3 database views - (graph)  
   8. plan for the plotly graph

Location:

PK: City Name

Lat,

Lon

Temperature:

PK: Date