SIT220/731 2022.T3: Task 7C

Tableau or *PowerBI* Dashboard

Last updated: 2022-12-12

Contents

1 Task

This task is related to Module 5 (see the *Learning Resources* on the unit site). In case of any problems/questions, do hot hesitate to attend our on-campus/online classes. The hard deadline is Week 11 (Friday).

Your aim is to create a single data visualisation dashboard using *Tableau Public* or *Power BI* that can be viewed by the marking tutors through a web browser.

> The choice of the data visualisation tool is up to you.

Your aim is to reproduce the analysis that you have performed while solving task 4P, i.e., of the `nycflights13_weather.csv.gz` (manually decompress the file first) dataset, which gives the hourly meteorological data for three airports in New York: LGA, JFK, and EWR for the whole year of 2013.

This includes:

1. Converting all columns so that they use metric (International System of Units, SI) or derived units.
2. Converting the `time_hour` column to date-time.
3. Computing daily mean temperatures for the `JFK` airport.
4. Presenting the daily mean temperatures on a plot.
5. Finding and displaying the five hottest days.

2 Additional Tasks for Postgraduate (SIT731) Students (*)

Similarly as in Task 4P, additionally visualise the case of the `EWR` and `LGA` airports.

3 Artefacts

You should submit a single PDF document (you can create it in any program, including Jupyter).

At the start of the document, you need to provide: the task **title** (e.g., *Task 42: How Much I Love This Unit*), your **name**, **student number**, **email address**, and whether you are an **undergraduate (SIT220) or postgraduate (SIT731)** adept.

Then, please provide **a URL** and a *clickable* **link** to your Tableau or Power BI dashboard. Make sure it can be accessed either publicly or at least by the marking tutors.

Submit one file via OnTrack:

1. the aforementioned PDF file containing the link to either a Power BI or Tableau Public dashboard.

4 Intended Learning Outcomes

ULO	Is Related?
ULO1 (Data Processing/Wrangling)	YES
ULO2 (Data Discovery/Extraction)	YES
ULO3 (Requirement Analysis/Data Sources)	YES
ULO4 (Exploratory Data Analysis)	YES
ULO5 (Data Privacy and Ethics)	