**Plan your European City Holiday**

Top 100 cities in Europe

**SQL Database**

* Cities
* City data (as below)
* Train station database - <https://www.kaggle.com/headsortails/train-stations-in-europe>
* Hotels: <https://www.kaggle.com/jiashenliu/515k-hotel-reviews-data-in-europe>
* Restaurants: <https://www.kaggle.com/stefanoleone992/tripadvisor-european-restaurants>

<https://www.kaggle.com/roshansharma/europe-datasets?select=crime_2016.csv>

* Average cost per day
* Crime
* Leisure satisfaction
* Pollution
* Population
* Life satisfaction
* Trust in police
* weather

**User input**

* Google Maps API - Interest – art galleries / sport / wine / food / museums / shopping
* Weather – OpenWeather API – Live weather \*now\*
* (Budget??)
* Country/City

Heatmap – based on average weather / markers for capital cities with overview (name / country / population / image?)

Leaflet – plot train stations, top restaurants, top hotels for each city

Project tasks:

* Web scripting for 100 top cities (city names and image), save to a csv
* Download datasets for Crime, Leisure satisfaction, pollution, population etc…
* Import all dataset to PostgreSQL. Merge datasets (?)
* World\_cities.csv to match city names and country(?) or call geocode API.
* Build html page -:

**Main page:**

* + Display a heatmap/layer/markers to show top 100 cities (Cities, Train Stations, Hotels, restaurants)
  + Drop down menu with 100 top city names to allow user selection

**Country/City page:**

* + A short description of the city/country
  + A plot to display country/city information: crime, pollution, population, life satisfaction, trust in police, current weather data (openWeatherAPI?) What is the best chart to plot? Bar?

**Idea of other pages?**