Homework 1

Due on Friday 27, 2023

In this first homework you need to:

1. Load a Mariadb database with the employee database

   - https://dev.mysql.com/doc/employee/en/employees-installation.html

2. Given the title of the people and its salary

   (a) Extract information into a Dataframe using a time columns

   (b) Generate a simple Linear Regression (Which needs to be programmed from scratch using Jax) to estimate

      i. How much could be your salary based on having a tittle in 2023

      ii. Do this for the

3. Start selecting the problem for your final project

   (a) To start desgining your database.

   (b) And the pipeline for testing the performance of your system.

Points

- 20 for getting the database running (Recommend to use a Docker for this)

- 40 for the select operations to extract the final CSV

- 40 for the Linear Regression for estimation