

Data Management and Artificial Intelligence Homework 3

Task 1 *Get the data*

Go to the lecture web page and download the zip file call DMAI_HW3_data.zip, containing six CSV files in total. Once finished, explore the data with Excel (or pandas, if you prefer).

Task 2 *Selection and projection with pandas*

Please use pandas to open the csv file ‘runways.csv’. Implement a projection/selection operation which selects all runways, whose ‘*length_ft*’ is larger than 10000 feet, ‘*width_ft*’ larger than 60 feet, and which are lighted (i.e., ‘*lighted*’ is set to 1). Save the result, only projecting the attributes ‘*airport_ident*’ and ‘*id*’) to file “T2_result.csv”.

Task 3 *Data exploration with pandas*

Try to find out how many runways Beijing Capital International Airport has, and what is their average length.