

FACULTY OF SCIENCES OF THE UNIVERSITY OF PORTO

DEPARTMENT OF COMPUTER SCIENCE

Advanced Topics in Databases

Practical Assignment

Andreia Genro Aníbal Silva Rui Fernandes

May, 2022

Abstract

This report describes the practical assignment of the Advanced Topics in Databases course.

This practical assignment consists in creating a data warehouse and conducting data analysis on it, as well as creating graphical reports using the Python library matplotlib.

In this report, we briefly describe our approach to the problem and discuss the decisions we made.

Contents

1	Introduction	1
2	Data Model	2
3	Data Analysis & Visualization	3
4	Conclusions & Future Work	4
\mathbf{L}^{i}	List of Figures	

1 Introduction

The data warehouse contains data from national swimming competitions at the master level (i.e. class of competitive swimming for swimmers 25 years and older), namely Troféu Pescada 2021 and the Summer 2021 Championship.

Structure of the Report

The remainder of the report is structured as follows:

- In Section 3, **Data Analysis & Visualization**, we provide some insight into the data
- Finally, Section 4, **Conclusions & Future Work**, concludes the report and suggests remarks for future work.

2 Data Model

In this section, we describe the data contained in the data warehouse.

3 Data Analysis & Visualization

4 Conclusions & Future Work