DOUGLAS COLLEGE

COMMERCE & BUSINESS ADMINISTRATION
COMPUTING STUDIES & INFORMATION SYSTEMS
COMPUTER AND INFORMATION SYSTEMS (PBD)

CSIS 4495-050: APPLIED RESEARCH PROJECT

Progress Report 2:
End-to-End Data Engineering Solution for HR Analytics

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NEW WESTMINSTER/BC
FALL/2025

1.0 Work Hours

Student Name: Matheus Filipe Figueiredo

Date	Number of Hours	Description of Work Done
10/05/2025	0.5	Initial look on the dataset, set up the POWER BI.
10/06/2025	1.5	Searched how to work with POWER BI.
10/06/2025	1.25	Initial work on the POWER BI (some minor labs for practice)
10/07/2025	0.25	Created the README for the POWER BI
10/08/2025	3.5	Created first version of the POWER BI Presentation
10/08/2025	0.25	Uploaded the initial POWER BI file and the README into the GitHub.
10/08/20250	0.10	Made some minor changes in the POWER BI
10/09/2025	0.25	Prepared the Progress Report number 2
10/09/2025	0.20	Uploaded the Progress Report number 2 to the GitHub

2.0 Work Done

During these weeks, my team and I mainly focused on creating the dataset and setting the starting points for the project.
For my part, I worked on creating an initial dashboard in Power BI with the intention of using it for the midterm presentation. Since I'm taking Data Visualization this term, I had to start from scratch in learning how to use Power BI, which required me to spend some time practicing. After becoming at least somewhat competent, I created the initial dashboard and uploaded it to GitHub, where I can receive feedback from my team members.

In Power BI, I began by slightly modifying the dataset, adding a new column (**HireDate**) for easier analysis. I also created three initial dashboards for visualization: **Overview**, **Departments**, and **Trends**. These dashboards include metrics such as **Total Employees**, **Average Salary**, and **Average Experience**, along with several charts showing comparisons and trends.

After completing this first version of the Power BI dashboard, I've already made some minor adjustments to the format, graphs, and fields.

Regarding GitHub, for this week, I added my **Project Report 2** along with the initial **Power BI file**, as well as an initial **README document** describing the work done in Power BI.

As mentioned before, I also made some changes to the POWER BI file, and updated those changes in the GitHub.