OT Data Automation using Excel VBA

Introduction

While transitioning between campaigns, I was temporarily assigned to a high-demand process with significant overtime (OT) activity. Every month, one of the team leaders was responsible for consolidating OT data of all agents and submitting it in a specific format to the payroll team. This was a repetitive, manual task consuming a considerable amount of time.

Business requirements

The payroll team required the OT data to be formatted as follows:

- The base OT hours were provided in decimal format and needed to be converted to HH:MM time format.
- No individual OT entry could exceed 4 hours per day.
- Entries were to be broken down in multiples of 4 hours, with the final entry containing the remaining time.
- OT entries were restricted to working days only (Monday to Friday).
- The processed file needed to include agent details, their team alignment, and associated process name.

The Challenge

On average:

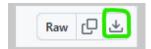
- Each agent logged about 25–30 hours of OT monthly.
- There were approximately 65 agents, resulting in nearly 450-500 OT entries to be generated.
- The manual preparation of the file took up to **2 hours** each month, consuming **25% of a leader's productive day** for just one task.

The Solution

I built an Excel VBA automation that **reduced the OT data preparation time** from **2 hours to under 5 minutes**, improving efficiency by **over 95%** while ensuring accuracy and **eliminating manual errors**.

Download Instructions

Go to Source folder, click on "OT Data Automation.xlsm" file, click on download icon on right of the page.



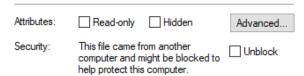
Note: Since this is a macro-based file, by default your system will apply a security block when you download and use it for the first time. Don't worry though, you just need to **Unblock** that security block and **Enable Content**

Here are the steps:

1. Right click on file name, select Properties



2. Look for Security info at the bottom, check on Unblock



3. Click on Enable Content



Screenshots

