# **PART 1(ERD)**

Diagram

Description automatically generated

The sql script is named ca3\_pt1\_sqlscript.txt.

The python script to load the csv data is named pt1\_py\_script.txt.

## **PART 2(ERD)**

Diagram

Description automatically generated

The sql script to load the new database is named ca3\_pt2\_sqlscript.txt. A new schema is to be created for this script to work.

The python script to load the new database is named pt2a\_py\_script.txt.

## **PART 2a(REPORT)**

The python script to generate the usage reports for both government agents and private companies can be found in pt2a\_py\_report.txt.

This script must be linked to the database that was created for part 2, which is the enhanced database based on part 1. The report can be generated once executed.

Below is a screenshot of the expected report.

Text

Description automatically generated

## **PART 2b**

Below is an improved ERD.

Diagram

Description automatically generated

For gov\_sector and priv\_sector, a date can be added to the corresponding company/agent as a record of them using OnePass. The sql script can be found in ca3\_pt2b\_sqlscript.txt. A new schema must be created for this database. A csv file named Add\_report\_pt2b.csv is the sample (dummy) data for DATE\_ADDED.

This report can be generated from a python file using pt2b\_py\_script.txt.

Below is a screenshot of the generated report using the txt file. It is incomplete.

A picture containing text

Description automatically generated

A picture containing diagram

Description automatically generated

This report shows the user a summary of the total users of each residence type, so it can be referred to later. Being able to see the total number of users for each month can be helpful as it can indicate which month users access OnePass more.

Knowing the date of each government agent or private company can also be helpful as it leaves a record of the implementation of OnePass.