Section B

I have approached this task as if it was a recurring job which needs to be run daily.

==========IMPORTANT!!!==========
In order for the script/queries to be run successfully you would need:

- PostgreSQL database connection;
- To add the connection host, port, user, password in *main.py* => *dwh_creds = {"connectstring" : "host= <host> dbname=<dbname> user=<user> password=<password>"};*
- Not to change anything (order, filenames) inside the Section B folder, copy the entire Section B folder to the directory of your choice and run it from there.
- Python 3.8.2, installed module psycopg2, please, see *requirements.txt.* Built-in modules: csv, os, sys, datetime

==========

The *csv_inputs* folder contains the original csvs that were sent as part of the assignment, in case you would like to replace those, please, follow the naming conventions: *BI_assignment_account.csv, ...transaction.., ..person..*

Simply run *main.py* ,

it's a python script that handles all operations**:**

1) Runs scripts from sql_scripts folder:
- Creates schema *test_mb;*
- Creates tables: *bi_assessment_transaction, bi_assessment_person, bi_assessment_account*, since every data model needs a dates table, one created as well - *dates_table;*
2) Reads from CSVs from *csv_inputs* folder;
- Writes CSV data into tables;
3) Alters tables, by adding primary keys and referencing foreign keys;
4) Runs the query
   | *that returns transactions for the users 345 and 1234, aggregated monthly, sorted by month, for the period from 15.02.2020 till 06.06.2020.*
   Although, the last transaction is from 2020-05-28.
5) Writes the result as a CSV file into the *query_results* folder.
6) Says Voila!

A	B	C
id_person	month	sum_of_transactions
1234	2020-02-01	553.2275
1234	2020-03-01	1223.5368
1234	2020-04-01	802.5819
1234	2020-05-01	400.3059
345	2020-02-01	2644.1412
345	2020-03-01	6663.2372
345	2020-04-01	3242.3866
345	2020-05-01	1712.4352

Image. Results of the query

There is a *logger.py* file which creates an errorlog and stores it in *logs* folder.
Also, all steps are written into log file and stored in *logs* folder, in order to see all steps being performed in terminal window just comment out line *sys.stdout = log*

Hope that was clear!