Final Assignment Report

1. Started by copying the files from Workearly’s Github to my working directory.

Opened the [finance\_liquor\_sales.sql](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/finance_liquor_sales.sql) with MySQL Workbench and added the lines.

SELECT\* FROM finance\_liquor\_sales,

WHERE year(date) BETWEEN 2016 AND 2019

ORDER BY date ASC;

Ran the above lines and exported the data to a csv file.

1. Continued by writing and running the [liquor\_sales.py](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/liquor_sales.py) on Python.

* Imported the libraries I needed to use.
* Loaded the csv file.
* Dropped columns I didn’t need.
* Created a new variable, a copy of the above, for finding the most popular item per zip\_code.
  + Dropped even more columns.
  + Grouped by zip code and item description.
  + Aggregated by summing the bottles sold.
  + Sorted data by zip code (asc) and bottles sold (desc).
  + Grouped by zip code and aggregated keeping the item with the most bottles sold (using max).
  + Exported the data to [Most Popular Item per Zip Code.csv](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/Most%20Popular%20Item%20per%20Zip%20Code.csv) for later use with Tableau.
  + Created and exported two figures ([Most Popular Item per Zip Code (log).png](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/Most%20Popular%20Item%20per%20Zip%20Code%20(log).png) and [Most Popular Item per Zip Code.png](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/Most%20Popular%20Item%20per%20Zip%20Code.png) ), more accurately two versions of the same figure (one in logarithmic yscale, to show data more clearly).
* Created a new variable, a copy of the first where the initial data was loaded, for finding the sales percentage (to total) of each store
  + Dropped columns that weren’t needed.
  + Grouped by store name.
  + Aggregated by summing the bottles sold.
  + Put the aggregated sum of the above table into a new ‘total sales’ variable.
  + Calculated the percentage of sales for each store (dividing the sum of bottles sold by the store with the ‘total sales’, multiplying by 100 and keeping only two decimal places).
  + Exported the data to [Percentage of Sales per Store.csv](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/Percentage%20of%20Sales%20per%20Store.csv) for later use with Tableau.
  + Created and exported a figure ([Percentage of Sales per Store.png](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/Percentage%20of%20Sales%20per%20Store.png)),   
    of the relevant data.

1. Used Tableau to create [Finance Liquor Sales - Final Assignment - Lampros Marios Tzouvaras.twbx](https://github.com/LambrosTz/Workearly---Final-Assignment/blob/main/Finance%20Liquor%20Sales%20-%20Final%20Assignment%20-%20Lampros%20Marios%20Tzouvaras.twbx) and publish it on Tableau Public (<https://public.tableau.com/views/FinanceLiquorSales-FinalAssignment-LamprosMariosTzouvaras/Dashboard1?:language=en-US&:display_count=n&:origin=viz_share_link>)
2. Uploaded project directory to my own Github repository

<https://github.com/LambrosTz/Workearly---Final-Assignment>