Workearly Data Science School

**Final Assignment Report**

First of all I read the exercise 3 times to understand exactly what you want to do .

Then I took the dataset from the files which you upload ( with name : finace\_liquor\_sales.sql ) . I copy the lines and I pasted it to MySql Workbench and then I run it (as we did with sakila database in the videos) .

I had to use a Query to a table. So I saw the keyword **all** and **between .** I used the command use-from for the table , the symbol \* for all columns , the command where Year () – between for the years 2016-2019 . And finally I used the command order by date to show the table .

This step was easy . I just pressed the icon and saved the file as liquorsales.csv .

Now is the most difficult part in my opinion . I spent maybe 40 minutes to understand how I can write the subject of the utterance . The keywords here was **the most popular item** so we wanted something about a bottle with liquor or something like that . The keywords **zip code** and **sales .** So we wanted to find the most famous bottles based on the zip code of the area and the sales they had . When I made clear what this step wanted , I started to write on Python . First I import the libraries and then put it the liquorsales.csv into the Python . Actually I wanted to create two axes . x-axe for zipcode and y-axe for bottle sales . After this I wanted to use Matplotlib to present the data like your picture in the example . To be honest , I looked for it in Google . I found something but I had one difficulty . All the scatter plots were blue . I wanted to do different colors like your example . Sο I looked for it again in Google and I used the command for and zip to start one repetitive process for every different plot . So that’s It , the visualization from my result was the same with your example .

Now about the difficulties .. The steps one , two and three were easy . The steps four and five took me a lot of time . To understand this , for this exercise I spent almost 3 hours . The steps one , two and three took me 10 minutes .. Anyway , in step 4 the most difficult part was to understand the meaning of the sentence . Then I used a lot the Google search .. I think without Google , I would not able to solve it . But I think that its not wrong to use the Google to find something about Python . I didn’t use Tableau for visualization because I started already in Python and I had the mindset that I will find what I want in w3schools or one platform like that about Matplotlib. One more difficulty was the same color in every plot as I said . But I find the solution .