Fundamentals of Database Technologies

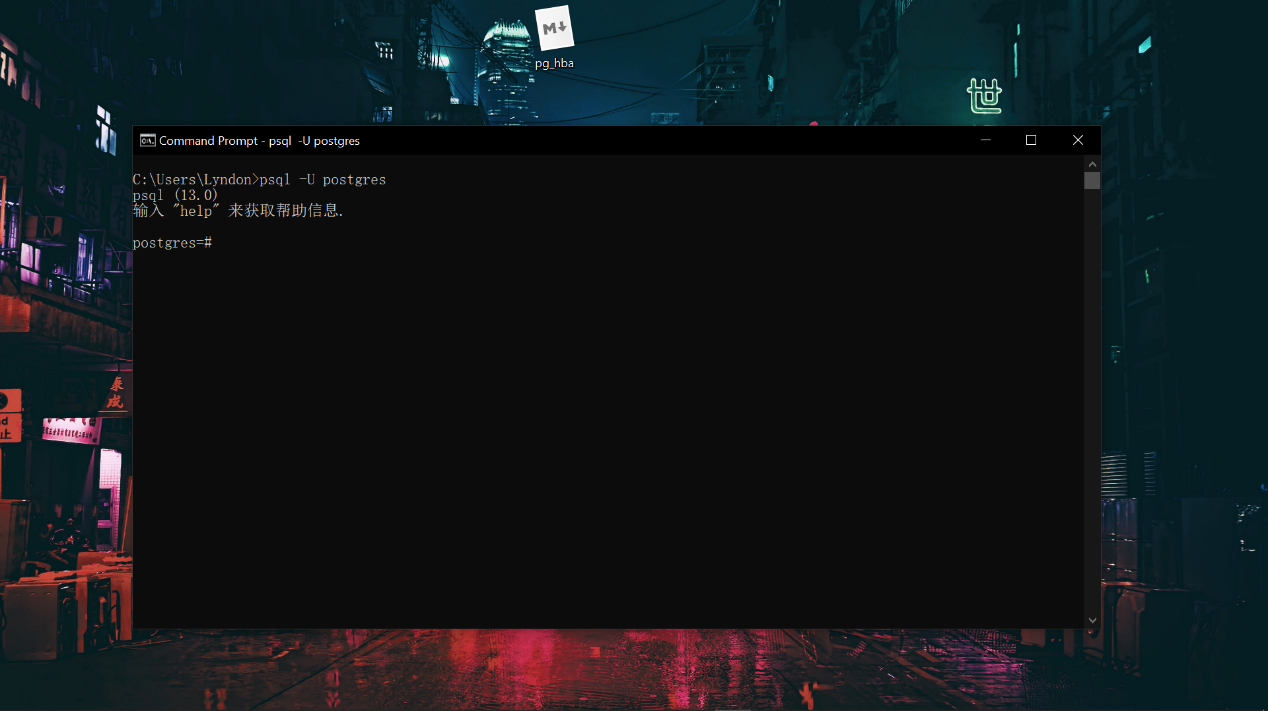
Assignment 4

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Date: 11/10/2020

# Step 1



# Step 2

This CSV file is a collection of dishes and their corresponding attiribtues, collected from 4500s menus from 1840s to the present. It includes the name of every dish with an unique ID, and corresponding numbers of appearance on menus and the time of appearances. It also includes the date of first appearance, the date of last appearance, the lowest price and the highest price for every dish.

# Step 3

# 

# Step 4

# 

# Step 5

CREATE TABLE dish\_table(

dish\_id int PRIMARY KEY,

name text,

menus\_appeared int ,

times\_appeared int,

first\_appeared int,

last\_appeared int,

lowest\_price float,

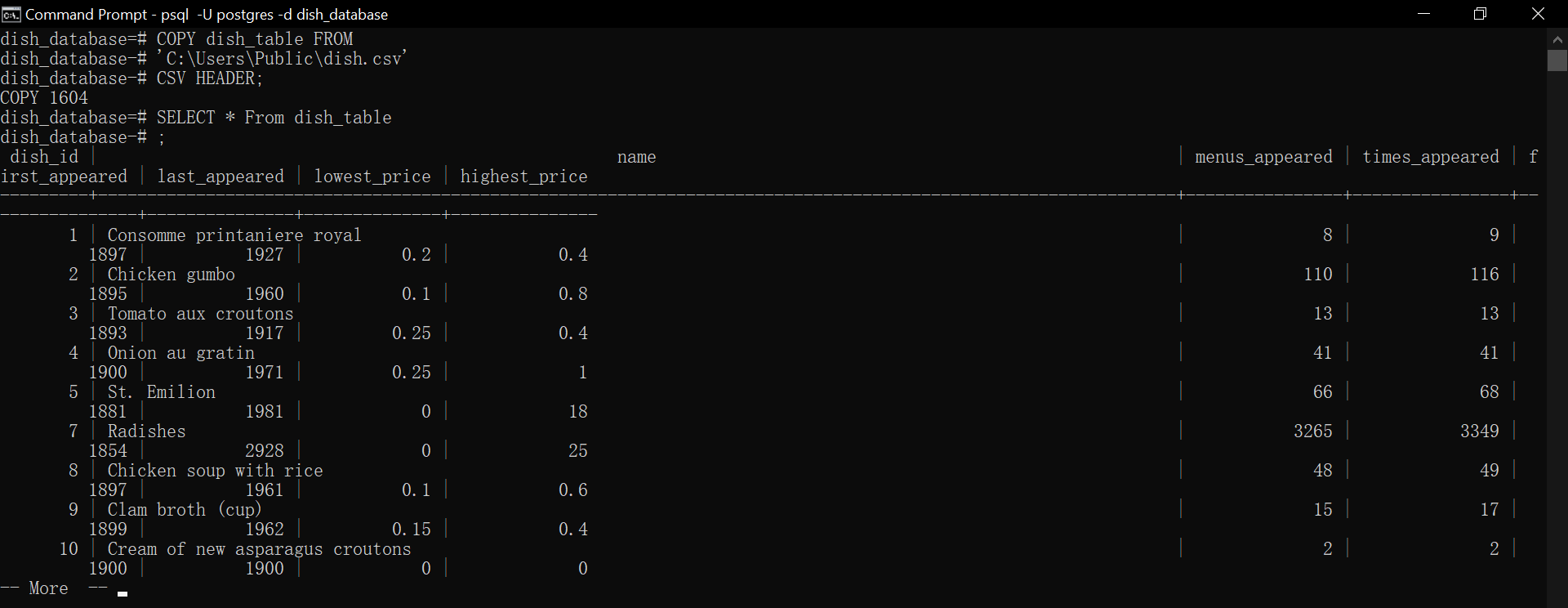
highest\_price float

);

# Step 6



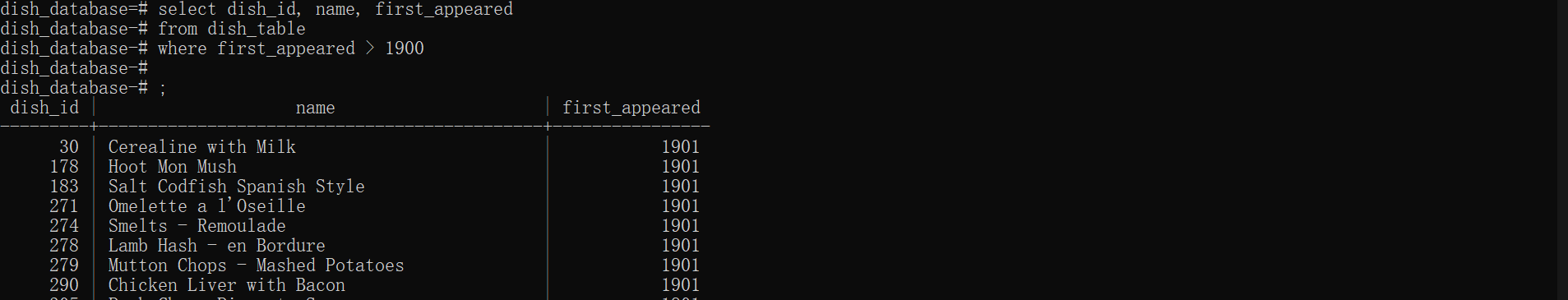
# Step 7,8



# Step 9

quary 1:

I want to search for the dishes that first appeared after 1900, and display the corresponding dish\_id, name and the date of first\_appeared,



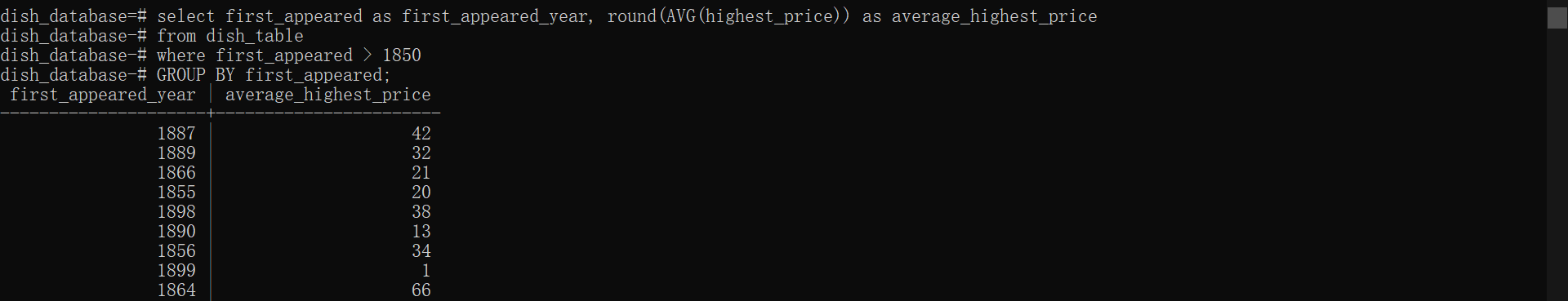
select dish\_id, name, first\_appeared

from dish\_table

where first\_appeared > 1900;

quary 2:

I want to search for the average highest price of all dishes in each year after 1850.



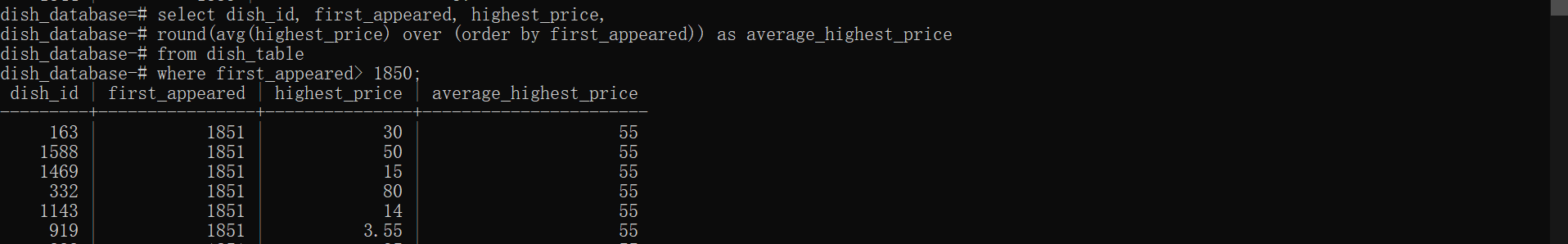
select first\_appeared as first\_appeared\_year, round(AVG(highest\_price)) as average\_highest\_price

from dish\_table

GROUP BY first\_appeared;

quary 3:

For all the dishes that first appeared after 1850, I want to display the dish\_id, highest\_price, and the average highest pirce of all dishes in this year.



select dish\_id, first\_appeared, highest\_price,

round(avg(highest\_price) over (order by first\_appeared)) as average\_highest\_price

from dish\_table

where first\_appeared> 1850;

# Step 10

I want to search for the dishes that only appeared on the menus for less than 30 years, which are considered as unpopular dishes, and display dish\_id, name, first\_appeared and last\_appeared.

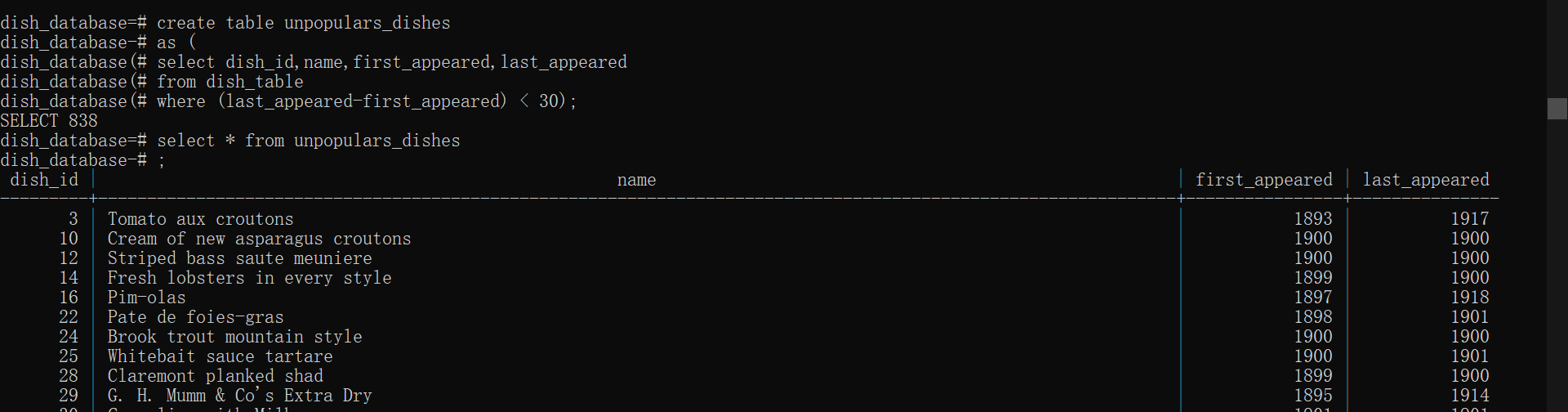
create table unpopulars\_dishes

as (

select dish\_id,name,first\_appeared,last\_appeared

from dish\_table

where (last\_appeared-first\_appeared) < 30);



# Step 11

