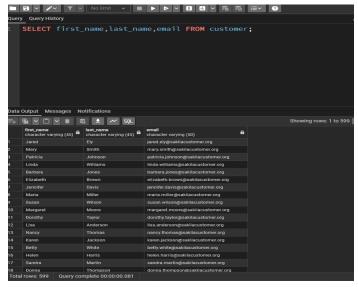
# SQL

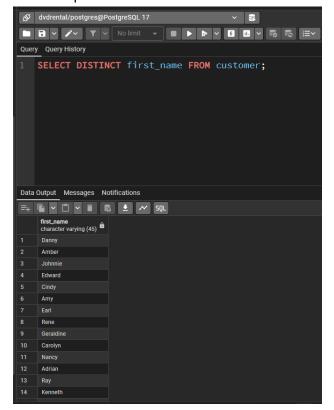
Challenge: We want to send out a promotional email to existing customers

Use SELECT statement for first and last name of every customer Solution: SELECT first name,last name,email FROM customer;

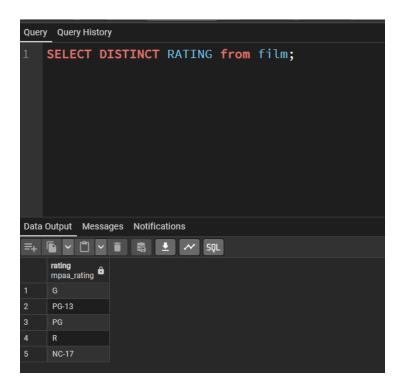


Challenge 2: SELECT DISTINCT

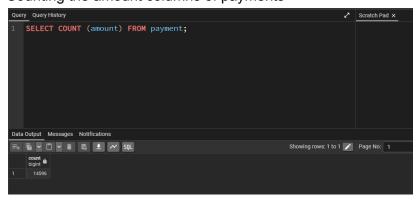
What unique first names are there in the tables? No duplicate names



Challenge :3 An Australian visitor isn't familiar with MPAA movie ratings (e.g. PG, PG-13, R, etc.). What are the types of ratings are in the databases? What ratings do we have available? Solution: SELECT DISTINCT RATING from film;



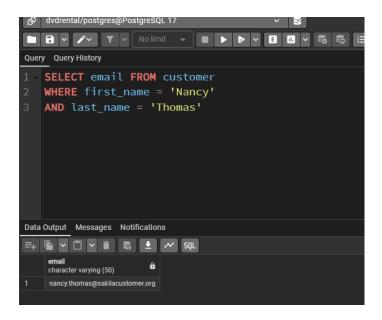
#### Counting the amount columns of payments



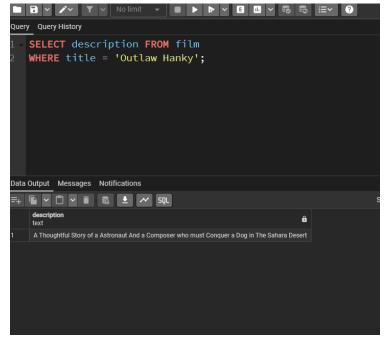
### WHERE Challenge

Note: We now know enough to answer more realistic business questions and tasks instead of directly asking for specific SQL tasks. From no one we will focus more on directly asking the business related questions, to more realistically model a typical task.

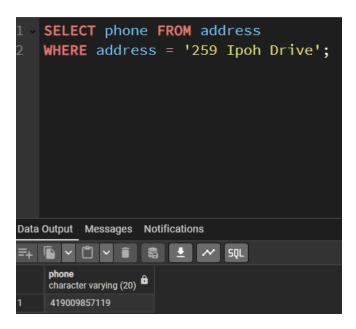
Challenge: A customer forgot their wallet at a store. We need to track down their email to inform them. What is the email for the customer with the name Nancy Thomas?



Challenge 2: A customer wants to know what the movie "Outlaw Hanky" is about. Could you give them the description of the movie "Outlaw Hanky"?

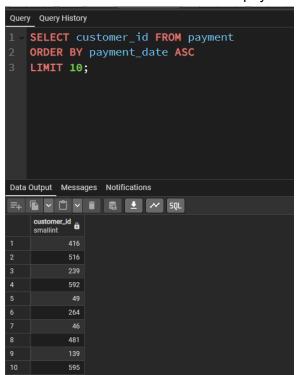


Challenge 3: A customer is late on their movie return, and we've mailed them a letter to their address at '259 Ipoh Drive'. We should also call them on the phone to let them know. Can you get the phone number for the customer who lives at '259 Ipoh Drive'?

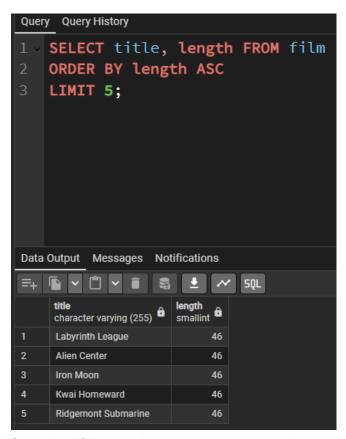


## **ORDER BY Challenge**

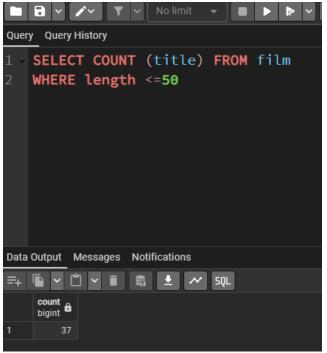
Challenge #1: We want to reward our first 10 paying customers. What are the customer ids of the first 10 customers who created a payment?



Challenge #2- A customer wants to quickly rent a video to watch over their short lunch break. What are the titles of the 5 shortest (in length of runtime) in movies?

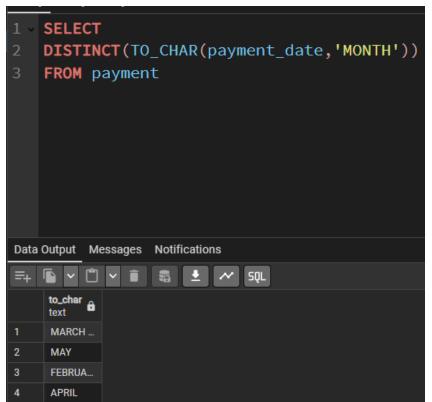


Question: If the previous customer can watch any movie that is 50 minutes or less in run time, how many options do they have?

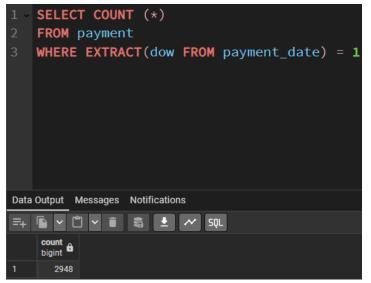


## Timestamps and Extracts

Challenge: During which months did payments occur? Format your answer to return back the full month name

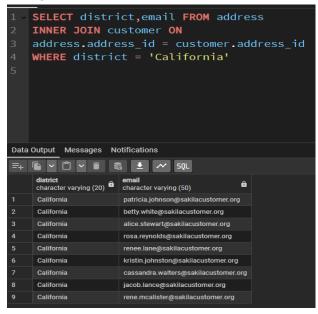


Challenge: How many payments occurred on a Monday?



#### SQL JOINS

Challenge: California sales tax laws have changed and we need to alert our customers to this through email. What are the emails of the customers who live in California?



Challenge: A customer walks in and is a huge fan of the actor "Nick Wahlberg" and wants to know which movies he is in. Get a list of all the movies "Nick Wahlberg" has been in.

