SQL Assignment 1

Note: Queries to look at the exact table have been included to just understand the table and columns available.

Q1. Do we have actors in the actor table that share the full name and if yes display those shared names.

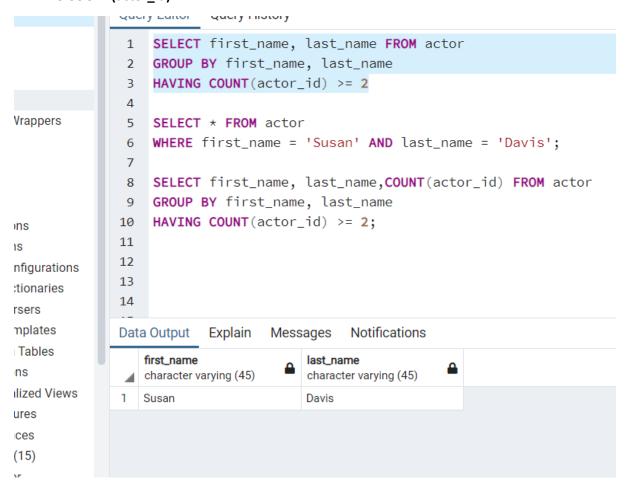
Answer: Yes, we do. The shared name is Susan Davis.

1. Required query

SELECT first_name, last_name FROM actor

GROUP BY first_name, last_name

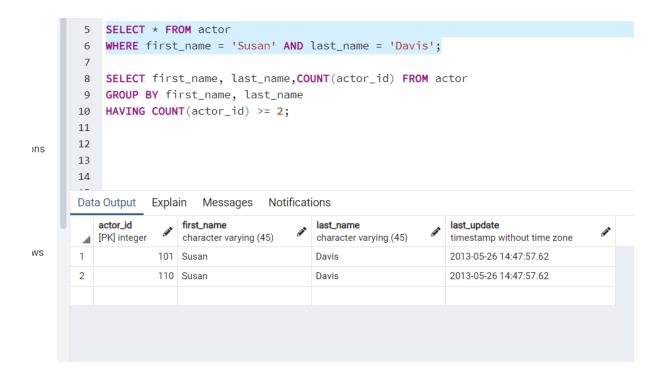
HAVING COUNT(actor_id) >= 2



2. Just validating the findings.

SELECT * FROM actor

WHERE first_name = 'Susan' AND last_name = 'Davis';



3. A more organised answer.

SELECT first_name, last_name,COUNT(actor_id) FROM actor
GROUP BY first_name, last_name
HAVING COUNT(actor_id) >= 2;



Q2. Return the customer IDs of customers who have spent at least \$110 with the staff member who has an ID of 2.

SELECT * FROM payment;

2. Required answer

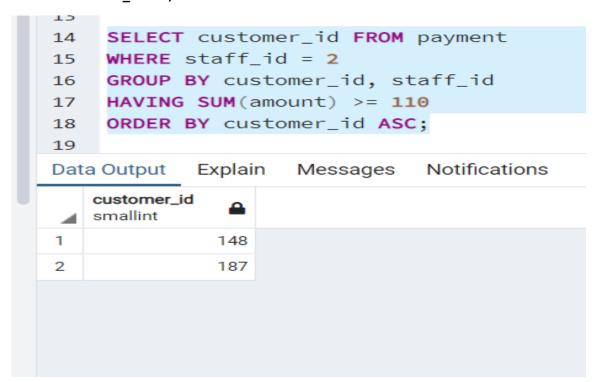
SELECT customer_id FROM payment

WHERE staff_id = 2

GROUP BY customer_id, staff_id

HAVING SUM(amount) >= 110

ORDER BY customer_id ASC;



3. A better, oragnised answer.

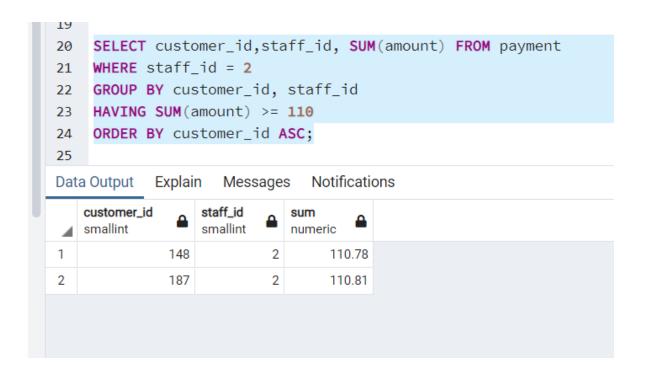
SELECT customer_id,staff_id, SUM(amount) FROM payment

WHERE staff_id = 2

GROUP BY customer_id, staff_id

HAVING SUM(amount) >= 110

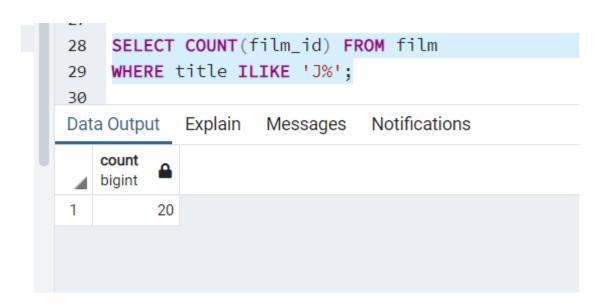
ORDER BY customer_id ASC;



Q3. How many films begin with the letter J? Answer: 20 Films.

SELECT * FROM film;

SELECT COUNT(film_id) FROM film
WHERE title ILIKE 'j%';



Q4. What customer has the highest customer ID number whose name starts with an 'E' and has an address ID lower than 500?

Answer: Eddie Tomlin whose customer_id is 434 fulfils the given criteria.

SELECT * FROM customer;

SELECT customer_id, first_name, last_name FROM customer

WHERE first_name LIKE 'E%' AND address_id < 500

ORDER BY customer_id DESC

LIMIT 1;

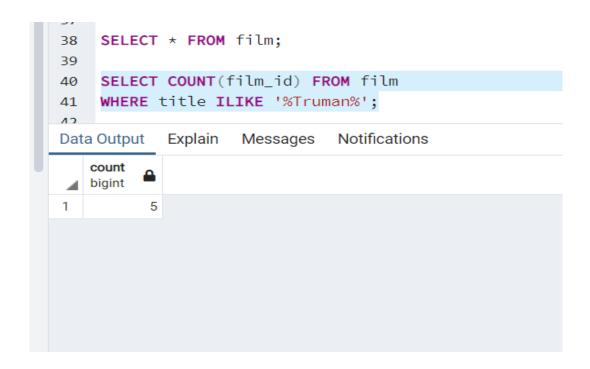
```
31 SELECT * FROM customer;
32
33
   SELECT customer_id, first_name, last_name FROM customer
34 WHERE first_name LIKE 'E%' AND address_id < 500
35
    ORDER BY customer_id DESC
36
   LIMIT 1;
                             Notifications
Data Output Explain
                   Messages
last_name
               character varying (45)
                                    character varying (45)
            434 Eddie
                                    Tomlin
1
```

Q5. How many films have the word Truman somewhere in the title? Answer: 5 Films.

SELECT * FROM film;

SELECT COUNT(film_id) FROM film

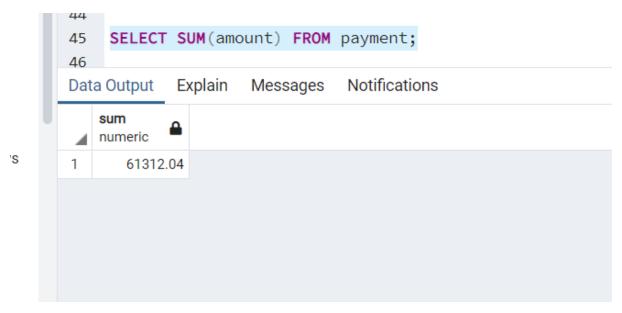
WHERE title ILIKE '%Truman%';



Q6. Display the total amount payed by all customers in the payment table. Answer: Total amount paid was \$61312.04

SELECT * FROM payment;

SELECT SUM(amount) FROM payment;



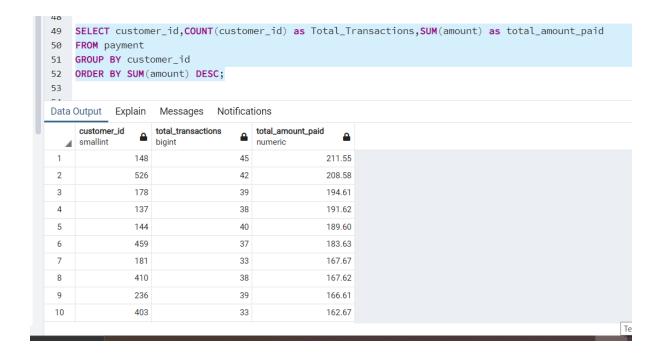
Q7. Display the total amount payed by each customer in the payment table. **SELECT * FROM payment;**

SELECT customer_id,COUNT(customer_id) as Total_Transactions,SUM(amount) as total_amount_paid

FROM payment

GROUP BY customer_id

ORDER BY SUM(amount) DESC;



Q8. What is the highest total_payment done.

Answer \$211.5, assuming this refers to highest total payment made by a single person.

SELECT * FROM payment;

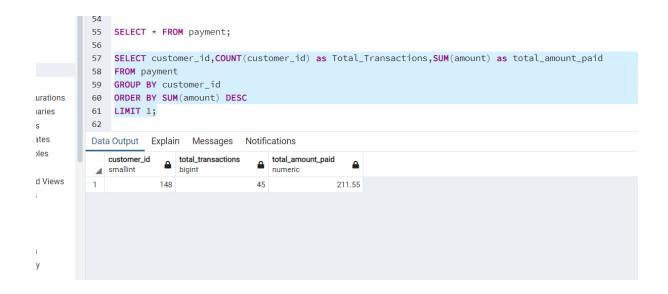
SELECT customer_id,COUNT(customer_id) as Total_Transactions,SUM(amount) as total_amount_paid

FROM payment

GROUP BY customer_id

ORDER BY SUM(amount) DESC

LIMIT 1;

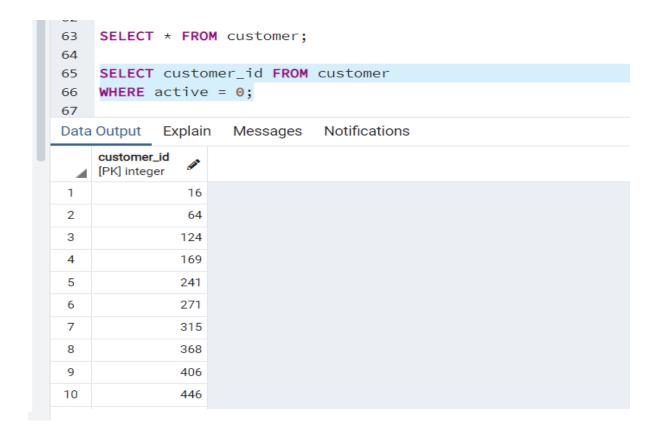


Q9. Which customers have not rented any movies so far.

SELECT * FROM customer;

SELECT customer_id FROM customer

WHERE active = 0;



Q10. How many payment transactions were greater than \$5.00? Answer: 3618 transactions

SELECT * FROM payment;

SELECT COUNT(payment_id) FROM payment

WHERE amount > 5;

