# 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.

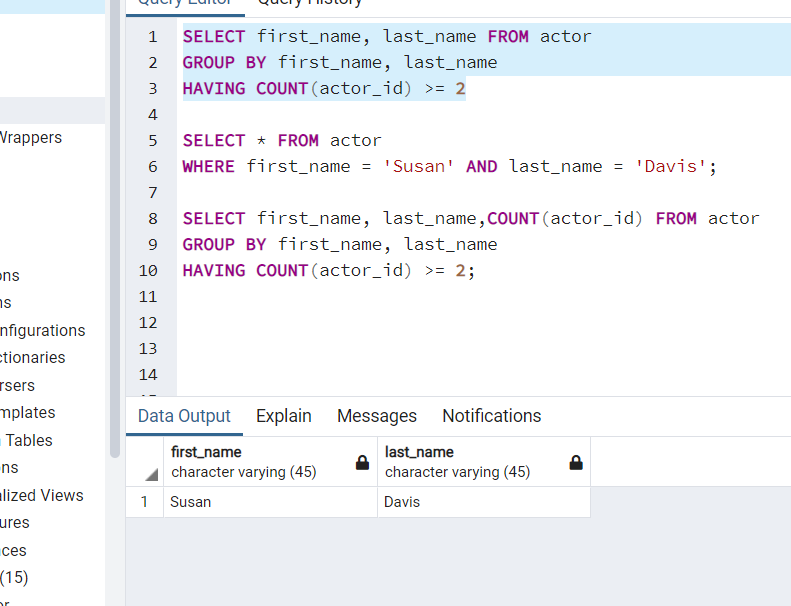
Answer: Yes, we do. The shared name is Susan Davis.

1. Required query

**SELECT first\_name, last\_name FROM actor**

**GROUP BY first\_name, last\_name**

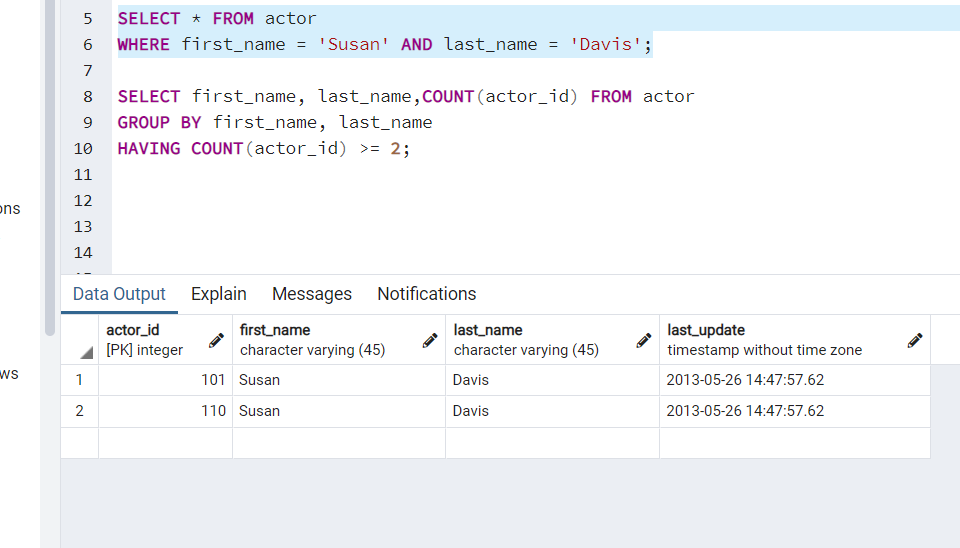
**HAVING COUNT(actor\_id) >= 2**



2. Just validating the findings.

**SELECT \* FROM actor**

**WHERE first\_name = 'Susan' AND last\_name = 'Davis';**

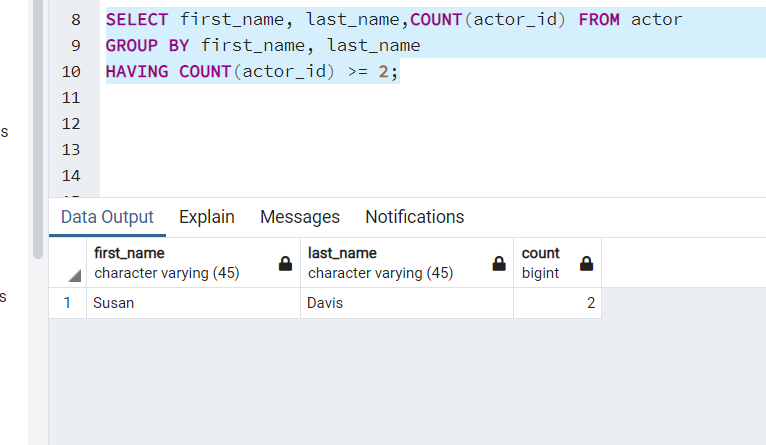


3. A more organised answer.

**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

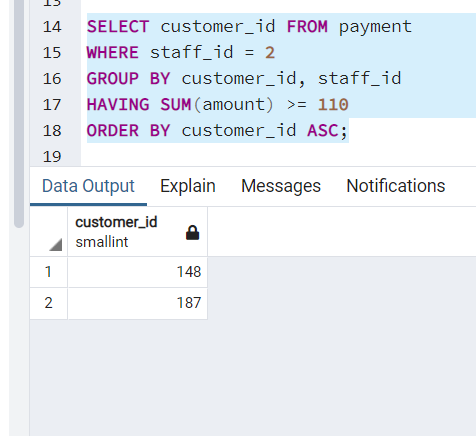
**SELECT customer\_id FROM payment**

**WHERE staff\_id = 2**

**GROUP BY customer\_id, staff\_id**

**HAVING SUM(amount) >= 110**

**ORDER BY customer\_id ASC;**



3. A better, oragnised answer.

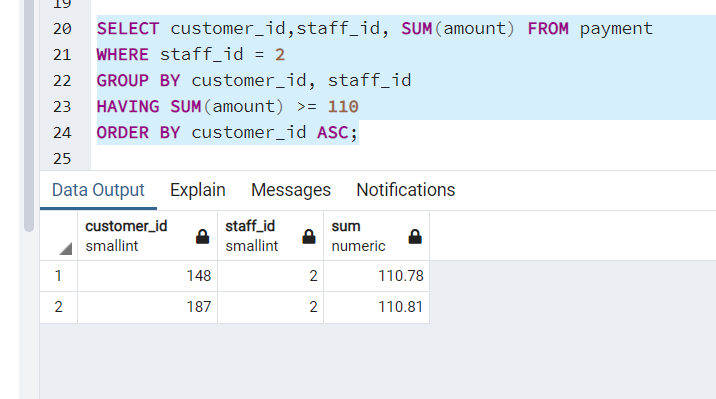
**SELECT customer\_id,staff\_id, SUM(amount) FROM payment**

**WHERE staff\_id = 2**

**GROUP BY customer\_id, staff\_id**

**HAVING SUM(amount) >= 110**

**ORDER BY customer\_id ASC;**



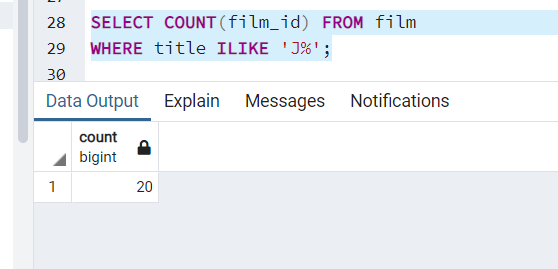
## **Q3.** How many films begin with the letter J?

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.

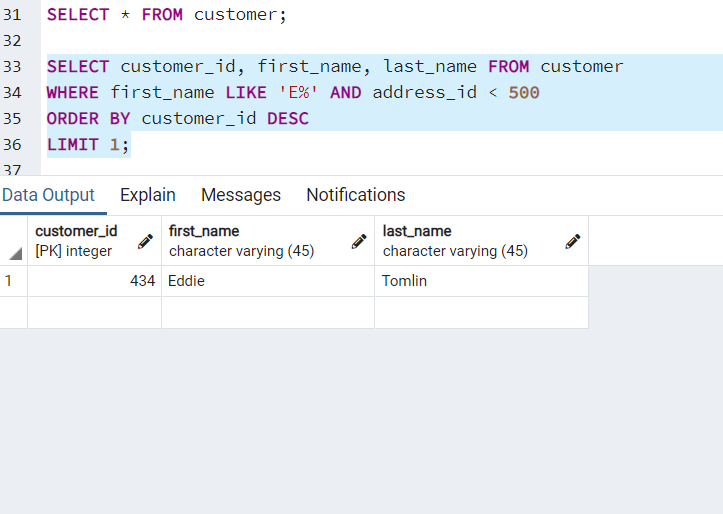
**SELECT \* FROM customer;**

**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;**



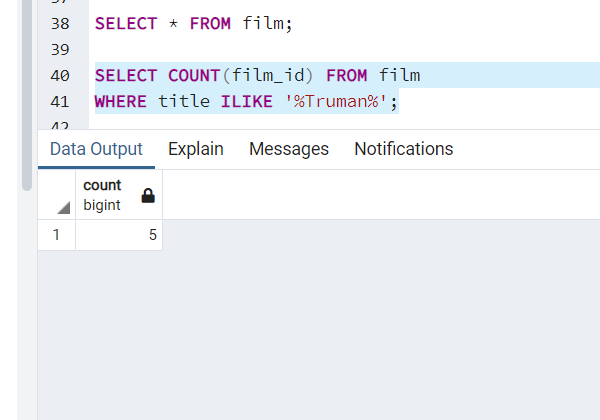
## **Q5.** How many films have the word Truman somewhere in the title?

Answer: 5 Films.

**SELECT \* FROM film;**

**SELECT COUNT(film\_id) FROM film**

**WHERE title ILIKE '%Truman%';**

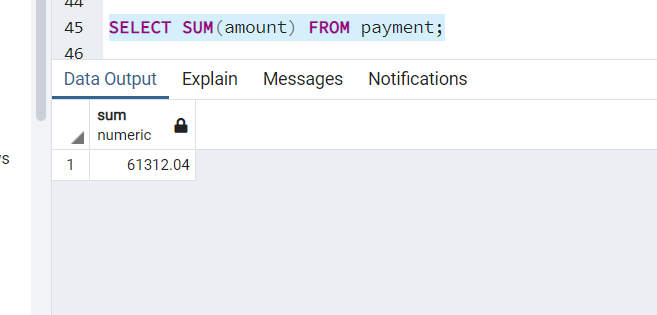


## **Q6.** Display the total amount payed by all customers in the payment table.

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.

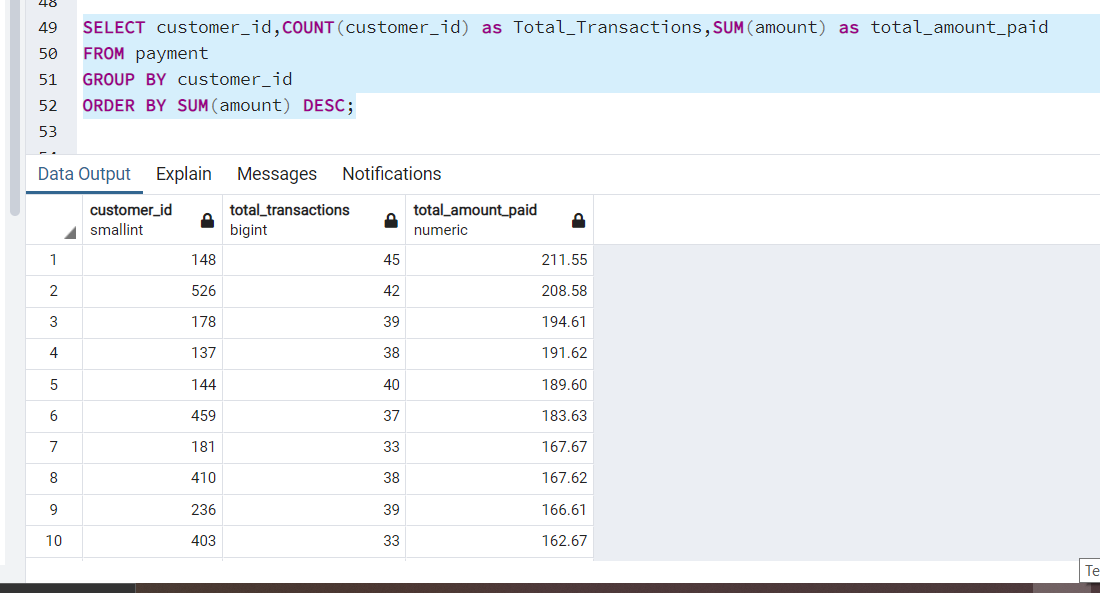
**SELECT \* FROM payment;**

**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;**

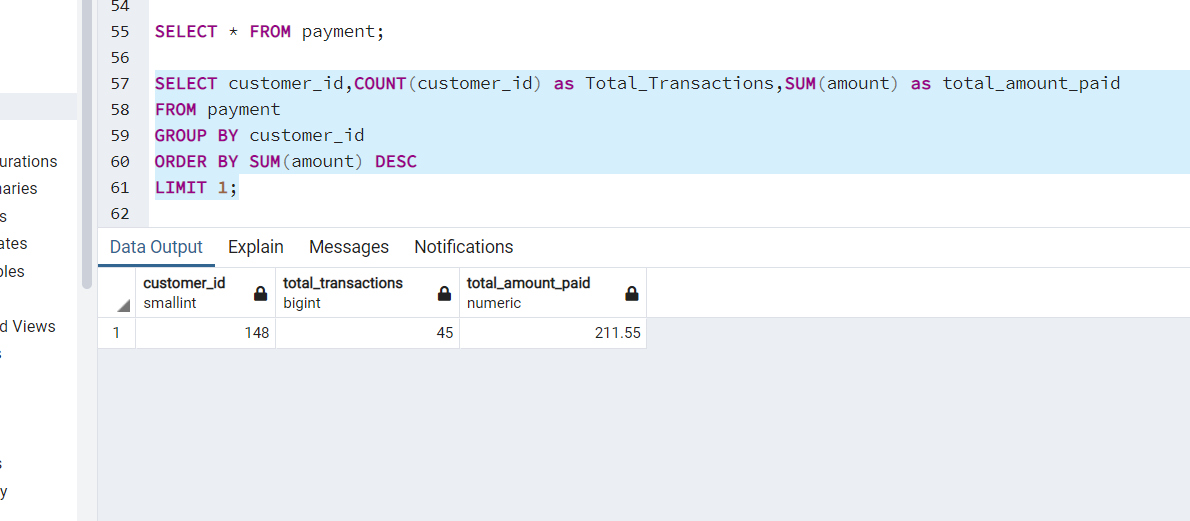
**SELECT customer\_id,COUNT(customer\_id) as Total\_Transactions,SUM(amount) as total\_amount\_paid**

**FROM payment**

**GROUP BY customer\_id**

**ORDER BY SUM(amount) DESC**

**LIMIT 1;**

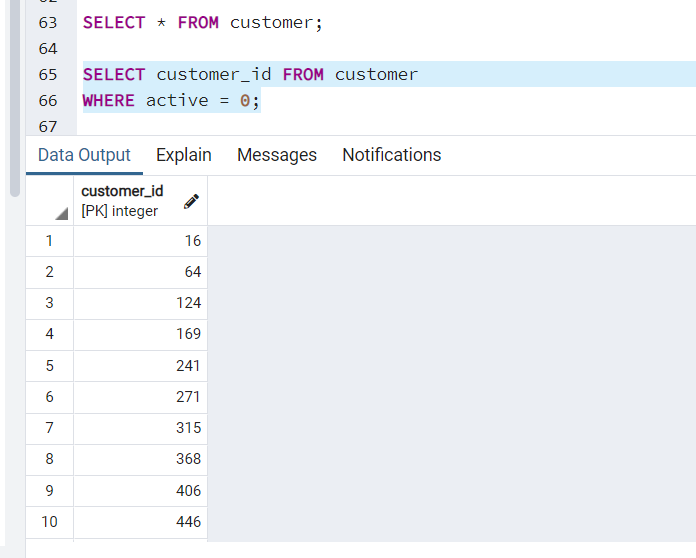


## **Q9.** Which customers have not rented any movies so far.

**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;**

