**TOPIC 15,16,17 Hands-On SQL**

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1. Identify the top 10 customers and their email so we can reward them

select concat(first\_name,' ',last\_name)as full\_name,email,sum(amount) as total\_amount\_paid

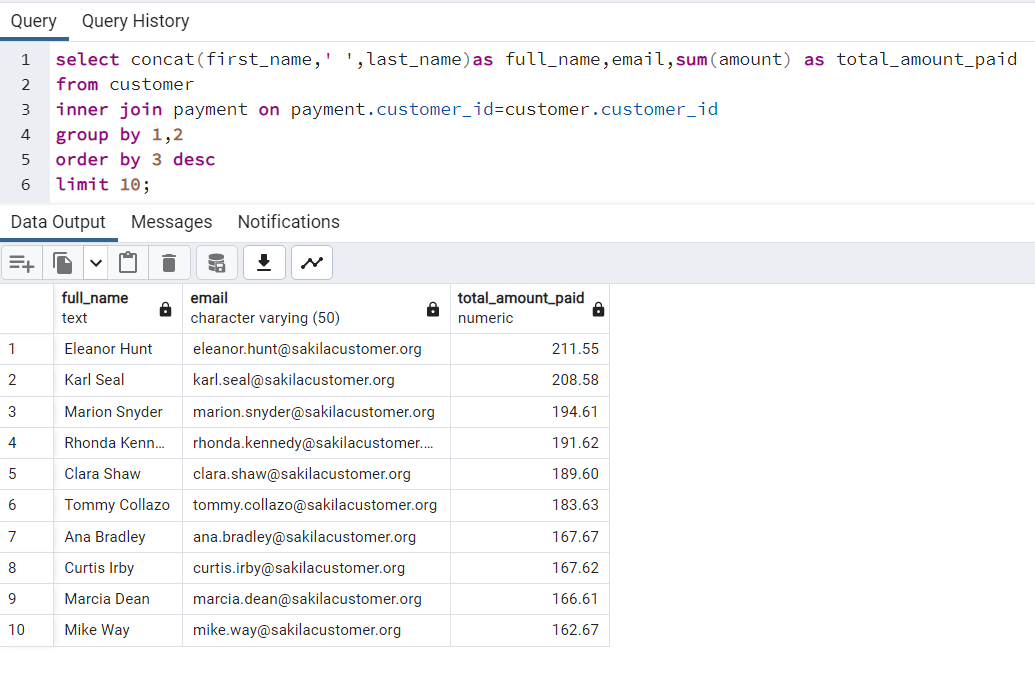
from customer

inner join payment on payment.customer\_id=customer.customer\_id

group by 1,2

order by 3 desc

limit 10;



1. Identify the bottom 10 customers and their emails

select concat(first\_name,' ',last\_name)as full\_name,email,sum(amount) as total\_amount\_paid

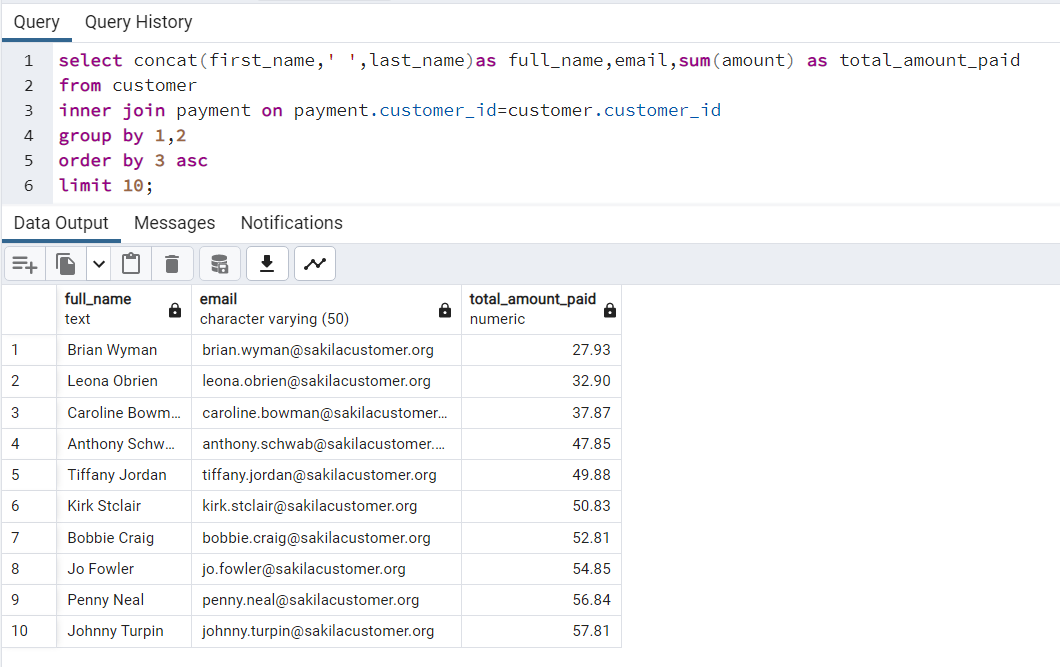
from customer

inner join payment on payment.customer\_id=customer.customer\_id

group by 1,2

order by 3 asc

limit 10;



1. What are the most profitable movie genres (ratings)?

select category.name as genre,count(customer.customer\_id) as total\_demand,

sum(payment.amount) as total\_sales from category

inner join film\_category on category.category\_id=film\_category.category\_id

inner join film on film\_category.film\_id=film.film\_id

inner join inventory on film.film\_id=inventory.film\_id

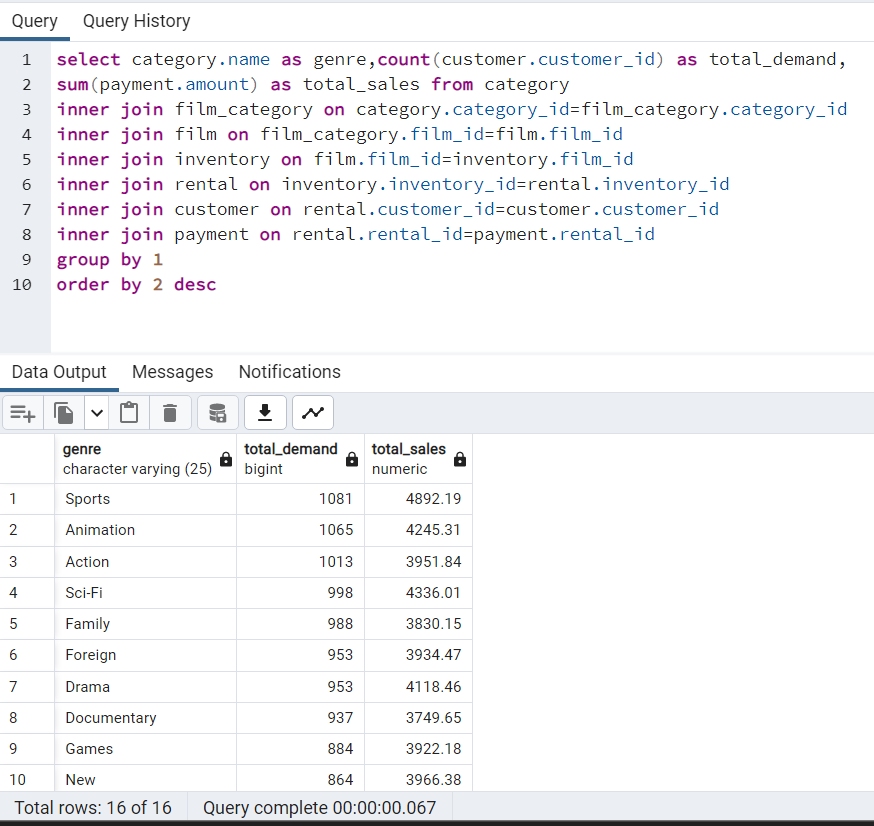
inner join rental on inventory.inventory\_id=rental.inventory\_id

inner join customer on rental.customer\_id=customer.customer\_id

inner join payment on rental.rental\_id=payment.rental\_id

group by 1

order by 2 desc



1. How many rented movies were returned late, early, and on time?

select case

when rental\_duration > date\_part('day',return\_date-rental\_date) then 'early'

when rental\_duration = date\_part('day',return\_date-rental\_date) then 'on time'

else 'late'

end as status\_return,

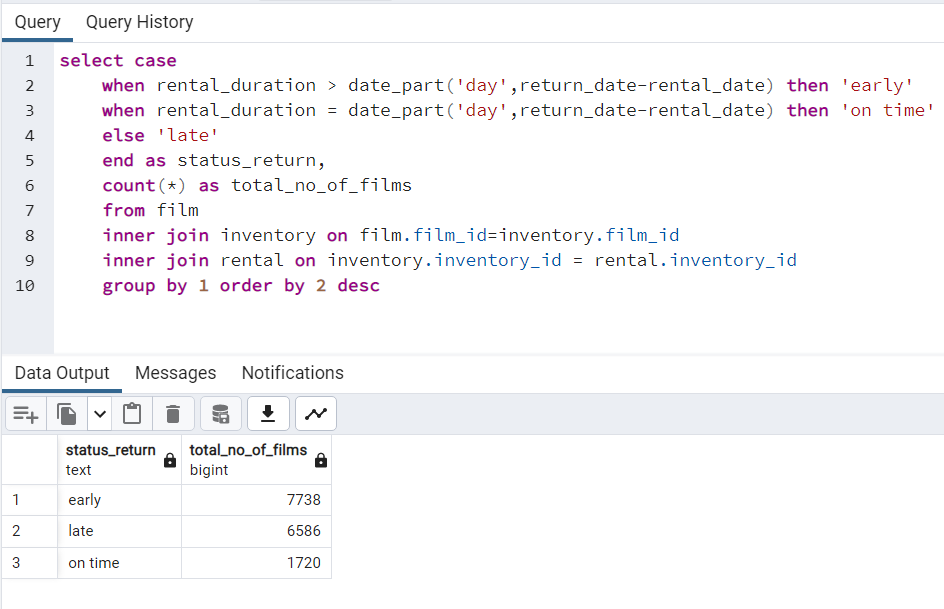
count(\*) as total\_no\_of\_films

from film

inner join inventory on film.film\_id=inventory.film\_id

inner join rental on inventory.inventory\_id = rental.inventory\_id

group by 1 order by 2 desc



1. What is the customer base in the countries where we have a presence?

select country,count(customer\_id)as customer

from country

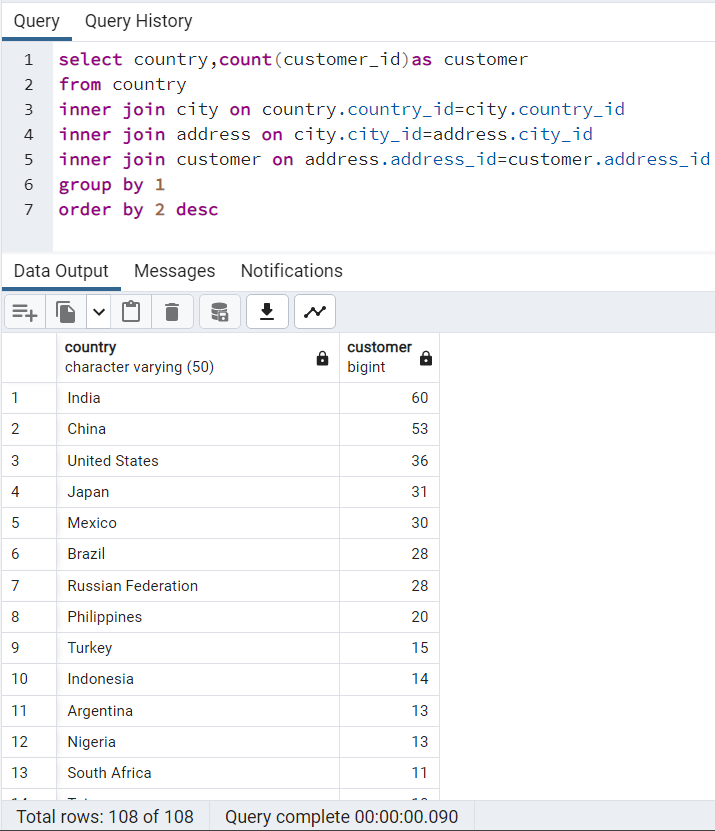
inner join city on country.country\_id=city.country\_id

inner join address on city.city\_id=address.city\_id

inner join customer on address.address\_id=customer.address\_id

group by 1

order by 2 desc



1. Which country is the most profitable for the business?

select country,count(\*) as total\_no\_cust,sum(amount) as total\_penjualan

from country

inner join city on country.country\_id=city.country\_id

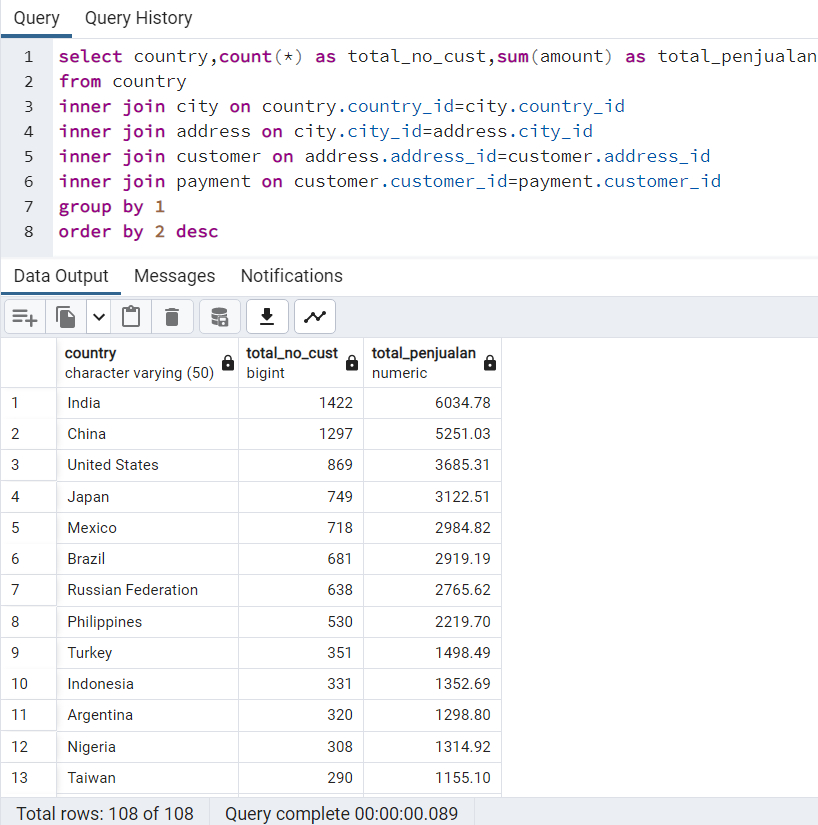
inner join address on city.city\_id=address.city\_id

inner join customer on address.address\_id=customer.address\_id

inner join payment on customer.customer\_id=payment.customer\_id

group by 1

order by 2 desc



1. What is the average rental rate per movie genre (rating)?

select name as movie\_genre,avg(rental\_rate) as avg\_rental\_rate

from category

join film\_category

using(category\_id)

join film

using(film\_id)

group by 1

order by 2 descs

