```
QUERY:
```

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

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SELECT
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CONCAT(customer.first\_name, ' ', customer.last\_name) as FullName, customer.email,
SUM(payment.amount) as TotalPurchase

Solvi(payment:amount) as rotal arena.

FROM customer

JOIN payment

USING(customer\_id)

GROUP BY FullName, customer.email

ORDER BY TotalPurchase DESC

LIMIT 10;

# --2. Identify the bottom 10 customers and their emails

SELECT

CONCAT(customer.first\_name, ' ', customer.last\_name) as FullName, customer.email,
SUM(payment.amount) as TotalPurchase

FROM customer

JOIN payment ON customer.customer\_id = payment.customer\_id

GROUP BY FullName, customer.email

ORDER BY TotalPurchase ASC

LIMIT 10;

## --3. What are the most profitable movie genres (ratings)?

SELECT

category.name AS GenreFIlm,

--film.rating,

SUM(payment.amount) AS total\_revenue

FROM film

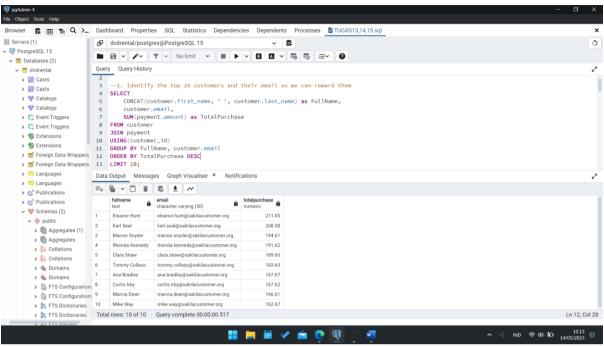
JOIN film\_category ON film.film\_id = film\_category.film\_id

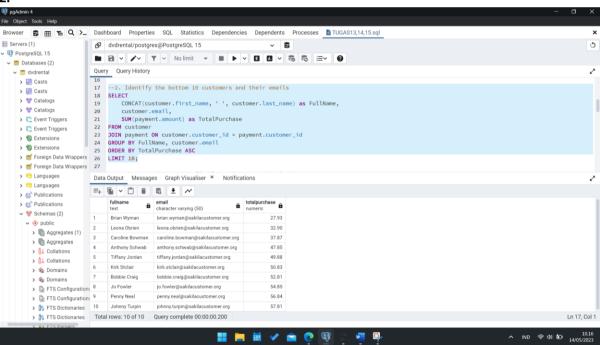
```
JOIN category ON film_category.category_id = category.category_id
                      JOIN inventory ON film.film id = inventory.film id
                              JOIN rental ON inventory.inventory_id = rental.inventory_id
                                      JOIN payment ON rental.rental_id = payment.rental_id
GROUP BY category.name /*,film.rating*/
ORDER BY total revenue DESC;
--4. How many rented movies were returned late, early, and on time?
WITH q1 AS (SELECT*, DATE PART('day', return date - rental date)
                              AS date difference
                FROM rental),
        q2 AS (SELECT rental_duration, date_difference,
                              CASE
                                      WHEN rental duration > date difference THEN 'EARLY'
                                      WHEN rental_duration < date_difference THEN 'LATE'
                                      ELSE 'ON TIME'
                              END AS Return_status
                       FROM film f
                      JOIN inventory i ON f.film_id = i.film_id
                      JOIN q1 ON i.inventory_id = q1.inventory_id)
SELECT return_status, count(*) AS total_film
FROM q2
GROUP BY return status
ORDER BY total_film DESC;
--5. What is the customer base in the countries where we have a presence ?
SELECT country,
               count(DISTINCT customer_id) AS customer_base
FROM country
       JOIN city
       USING(country_id)
```

```
JOIN address
              USING(city_id)
                      JOIN customer
                      USING(address_id)
GROUP BY country
ORDER BY customer base DESC;
--6. Which country is the most profitable for the business?
SELECT country,
              SUM(amount) AS total_sales
FROM country
       JOIN city
       USING(country_id)
              JOIN address
              USING(city_id)
                      JOIN customer
                      USING(address_id)
                             JOIN payment
                              USING(customer_id)
GROUP BY country
ORDER BY total_sales DESC;
--7. What is the average rental rate per movie genre (rating)?
SELECT c.name AS genre, ROUND(AVG(f.rental_rate),2) AS AverageRentalRate
FROM category c
       JOIN film_category fc
       USING(category_id)
              JOIN film f
              USING(film_id)
GROUP BY 1
ORDER BY 2 DESC;
```

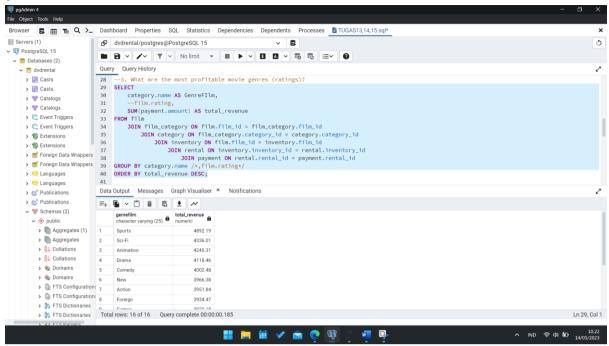
#### **EXECUTE RESULT:**

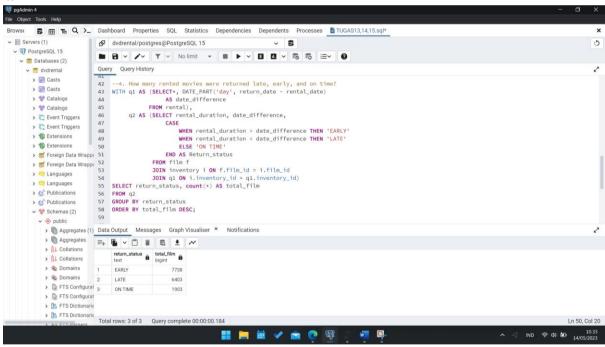
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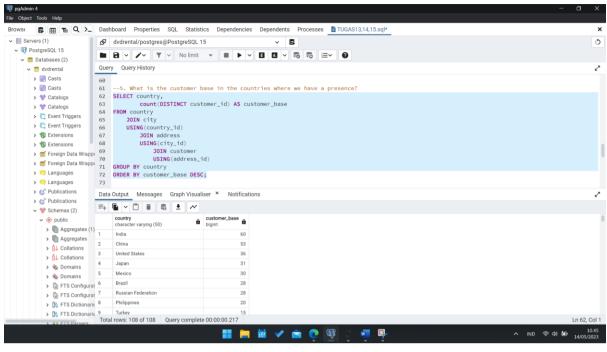


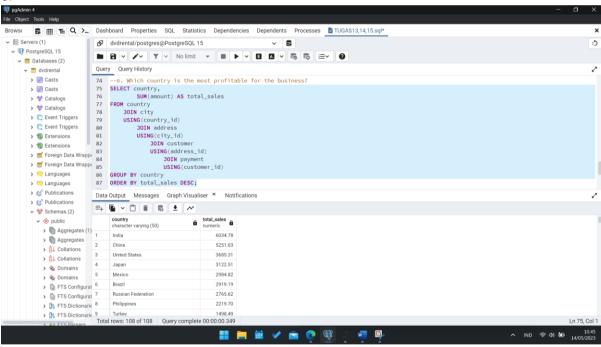
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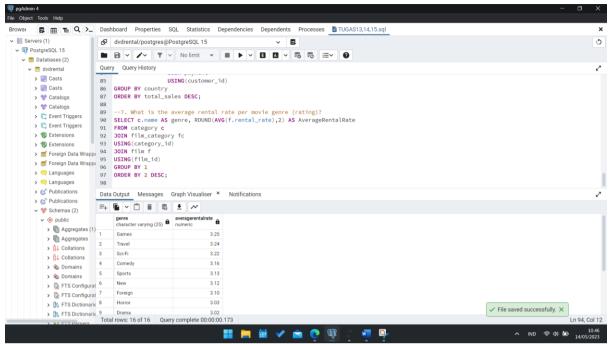


5.





7.



### **VISUAL:**

3.

