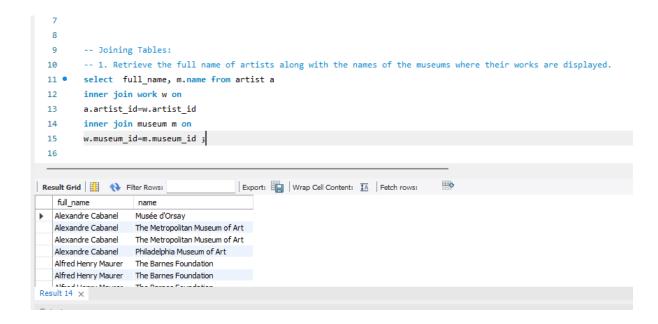
SQL PROJECT 2

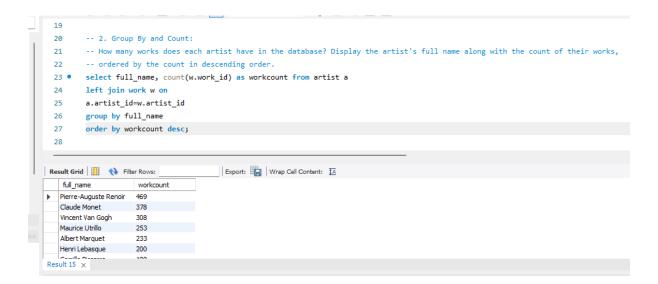
-- Joining Tables:

-- 1. Retrieve the full name of artists along with the names of the museums where their works are displayed.



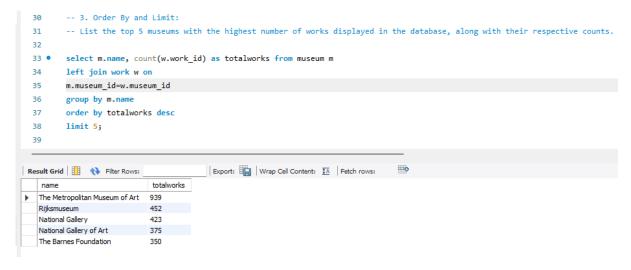
-- 2. Group By and Count:

-- How many works does each artist have in the database? Display the artist's full name along with the count of their works, ordered by the count in descending order.



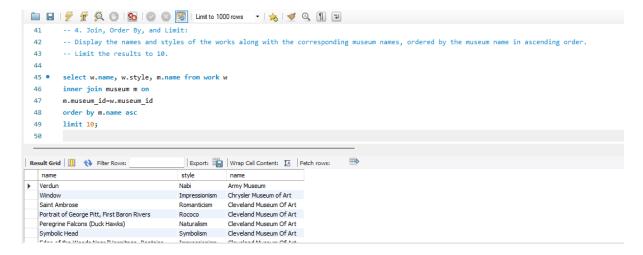
-- 3. Order By and Limit:

-- List the top 5 museums with the highest number of works displayed in the database, along with their respective counts.



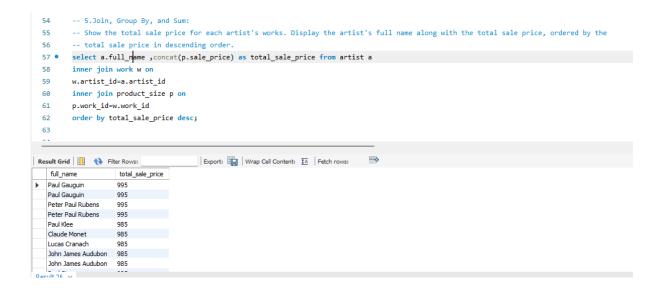
-- 4. Join, Order By, and Limit:

-- Display the names and styles of the works along with the corresponding museum names, ordered by the museum name in ascending order. Limit the results to 10.



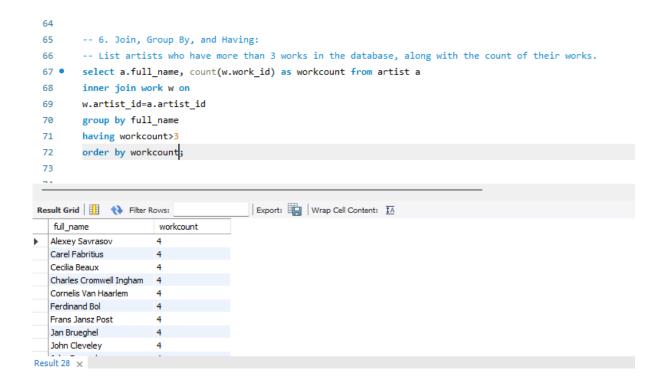
-- 5.Join, Group By, and Sum:

-- Show the total sale price for each artist's works. Display the artist's full name along with the total sale price, ordered by the total sale price in descending order.

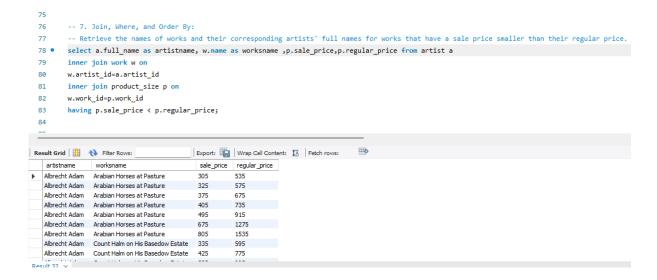


-- 6. Join, Group By, and Having:

-- List artists who have more than 3 works in the database, along with the count of their works.



- -- 7. Join, Where, and Order By:
- -- Retrieve the names of works and their corresponding artists' full names for works that have a sale price smaller than their regular price.



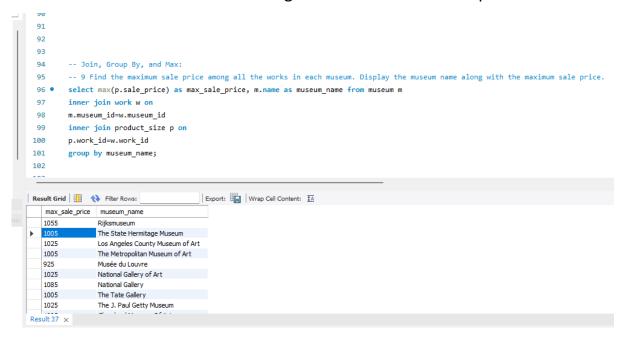
- -- 8. Join, Group By, and Average:
- -- Calculate the average height and width of the artworks in the database.

 Display the average height and width.



-- Join, Group By, and Max:

-- 9 Find the maximum sale price among all the works in each museum. Display the museum name along with the maximum sale price.



-- Join, Group By, and Concatenate:

-- 10. Concatenate the first name and last name of artists along with their nationality, separated by a comma. Display the concatenated string along with the count of works by each artist, ordered by the count in descending order.

```
05
        -- 10. Concatenate the first name and last name of artists along with their nationality, separated by a comma-
96
        -- Display the concatenated string along with the count of works by each artist, ordered by the count in descending order.
97
       select * from artist:
08 •
       select concat_ws(' ',a.first_name,a.last_name,',',a.nationality) as artist_name,
09 •
10
       count(w.work id) as workcount
11
       from artist a
12
       inner join work w on
       w.artist_id=a.artist_id
13
       group by artist_name
       order by workcount desc;
esult Grid 🔠 💎 Filter Rows:
                                           Export: Wrap Cell Content: IA
 artist name
                                                workcount
 Pierre Renoir , French
 Claude Monet , French
                                               378
  Vincent Van Gogh , Dutch
 Maurice Utrillo , French
                                               253
 Albert Marquet , French
Henri Lebasque , French
                                               233
 Camille Pissarro , French
                                                188
 Louis Valtat , French
                                               184
                                               174
 Maximilien Luce , French
```