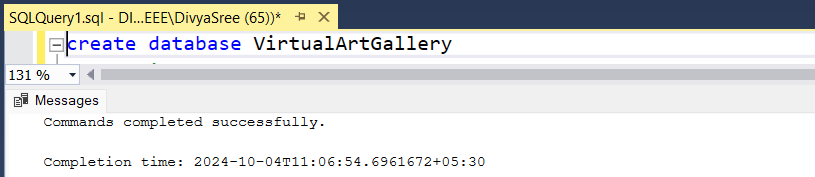
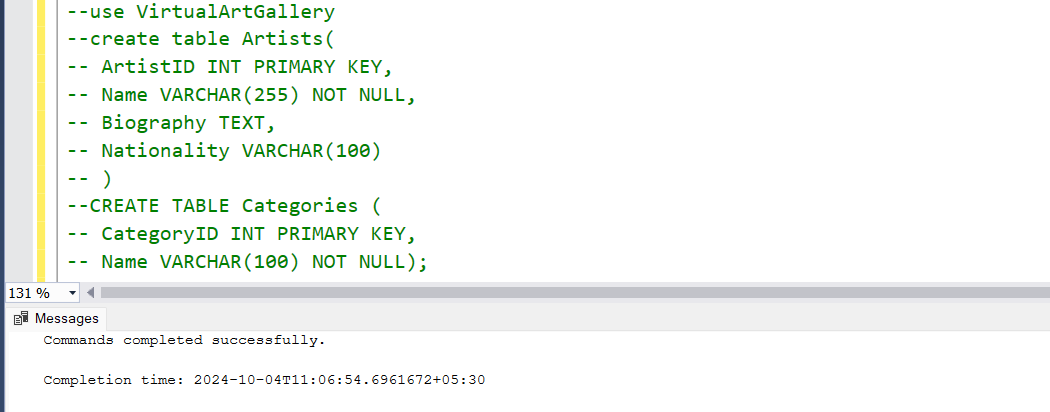
**Hexaware Coding Challenge(04/10/2024) Divya Sree Murali**

**Virtual Art Gallery**

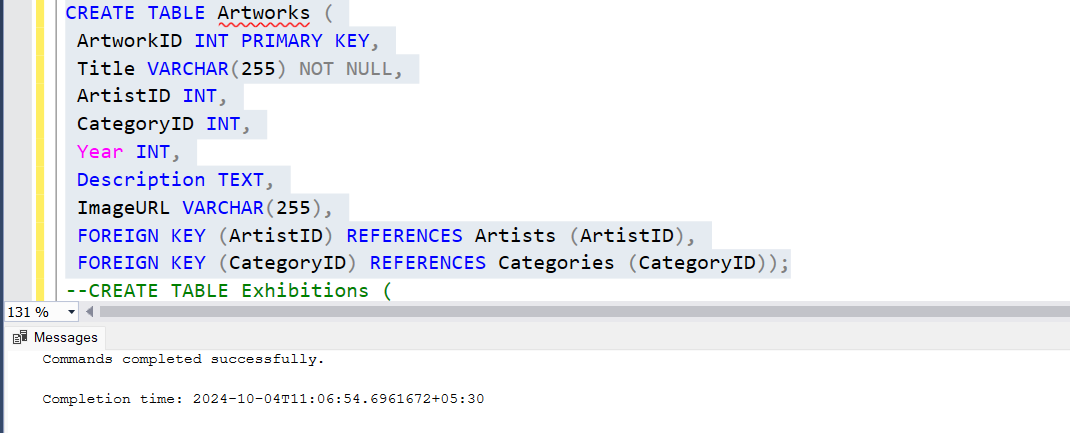
**Creating DataBase**

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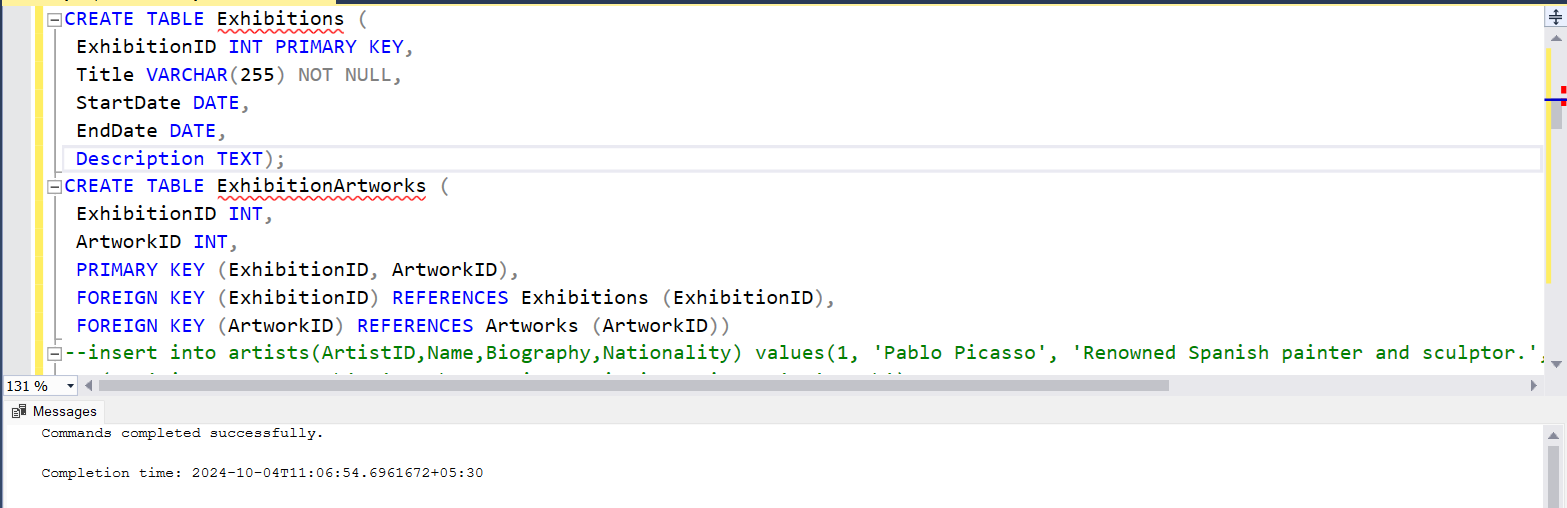
**Creating tables for artists and categories**

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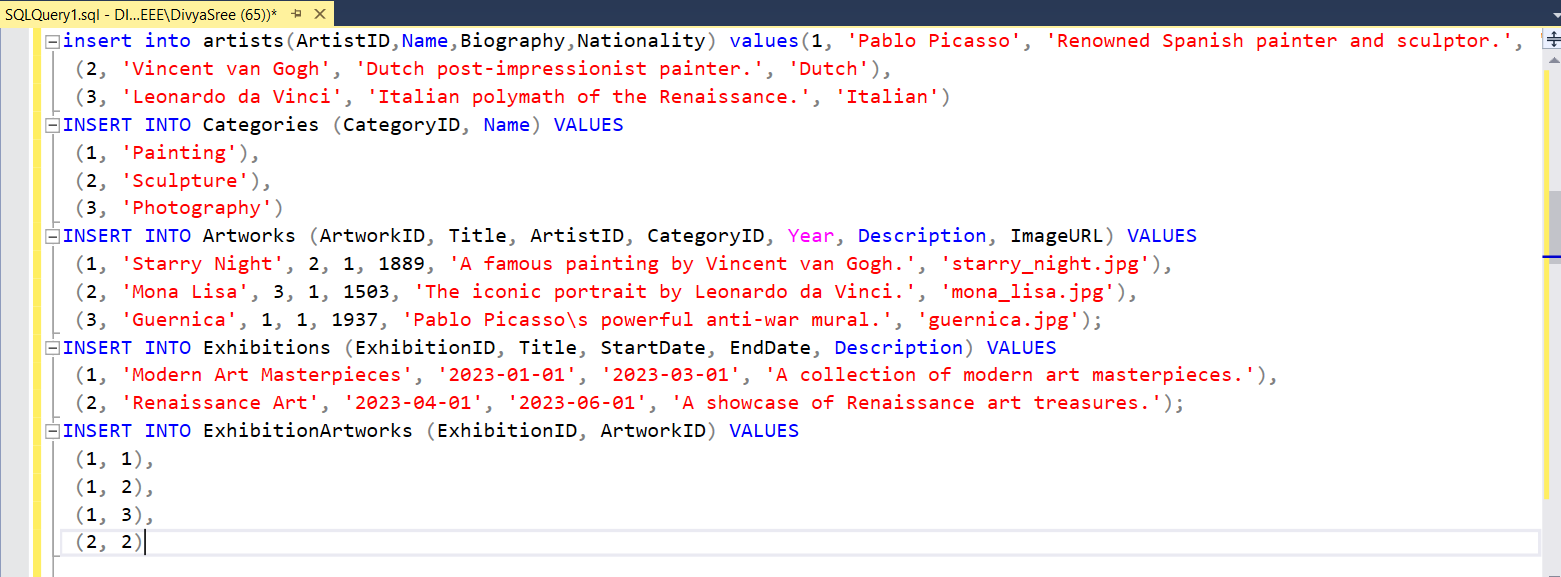
**Creating Artworks table and specifying the relations with other tables using foreign keys**

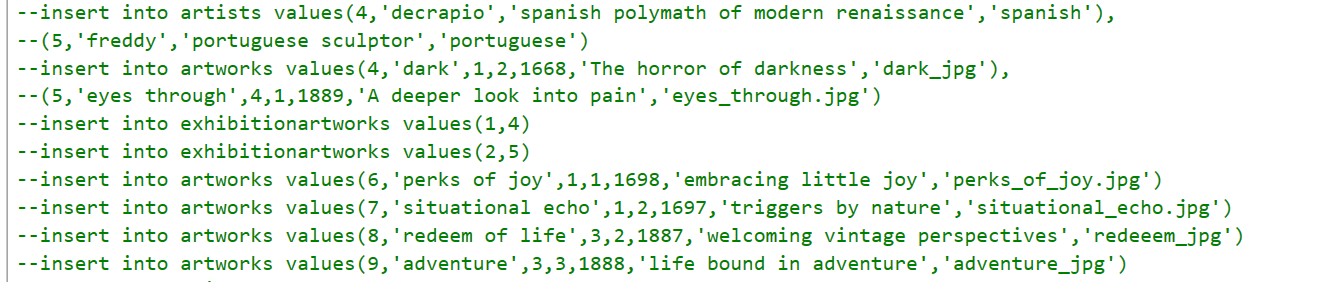
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**Creating tables exhibitions and exhibitionstable as specified**

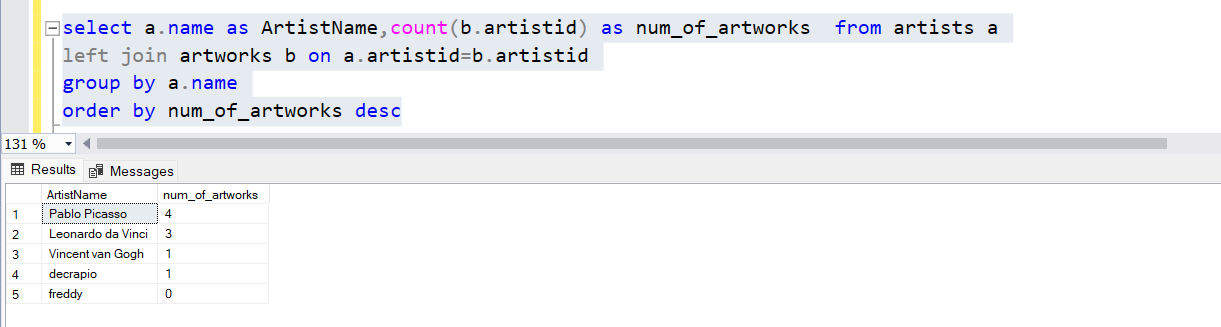
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**Inserting sample records into the table**

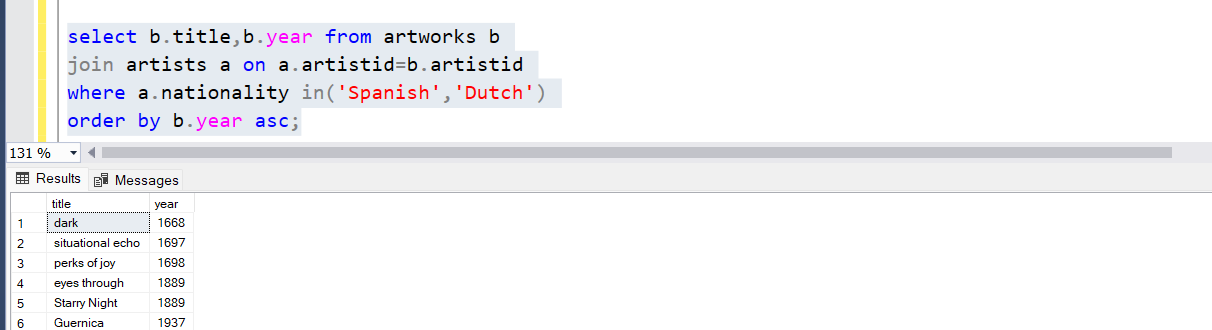
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1. **Retrieve the names of all artists along with the number of artworks they have in the gallery, and list them in descending order of the number of artworks.**

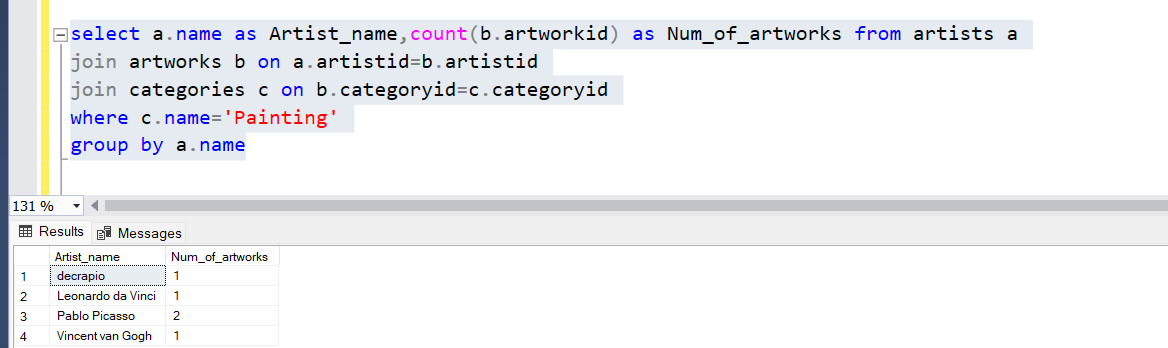
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1. **List the titles of artworks created by artists from 'Spanish' and 'Dutch' nationalities, and order them by the year in ascending order**

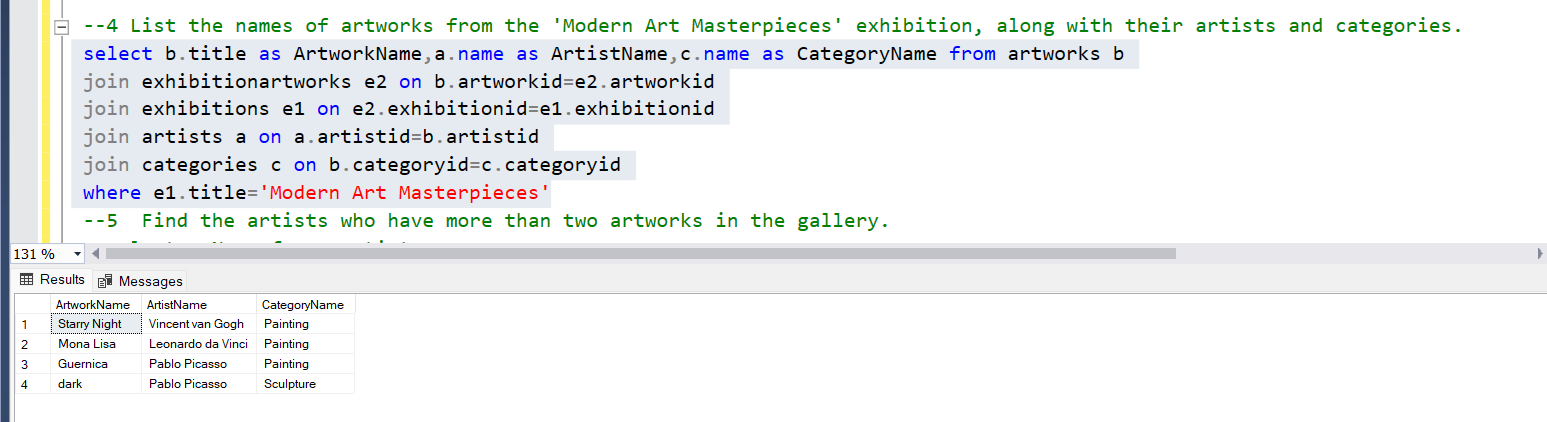
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**For reference, I have added years in order to specify they are arranged in ascending order**

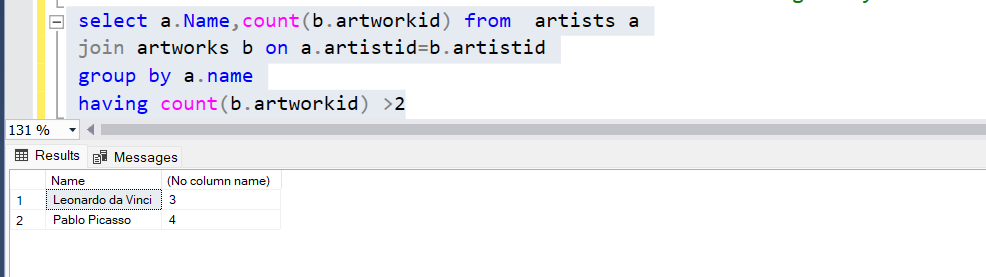
1. **Find the names of all artists who have artworks in the 'Painting' category, and the number**

**of artworks they have in this category.**

1. **List the names of artworks from the 'Modern Art Masterpieces' exhibition, along with their artists and categories.**

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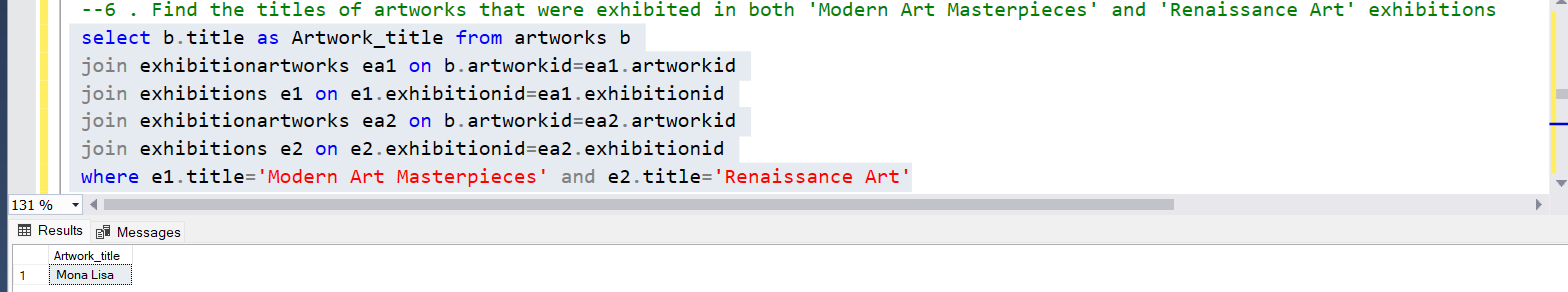
1. **Find the artists who have more than two artworks in the gallery.**

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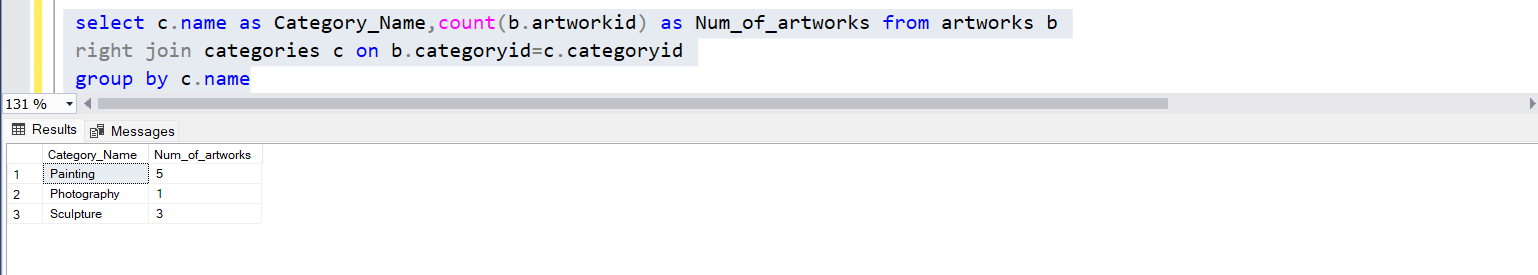
**For reference, I have added the count of artworks**

**6. Find the titles of artworks that were exhibited in both 'Modern Art Masterpieces' and**

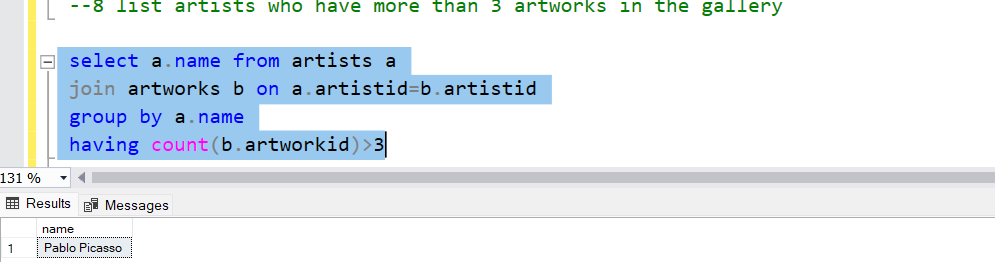
**'Renaissance Art' exhibitions**

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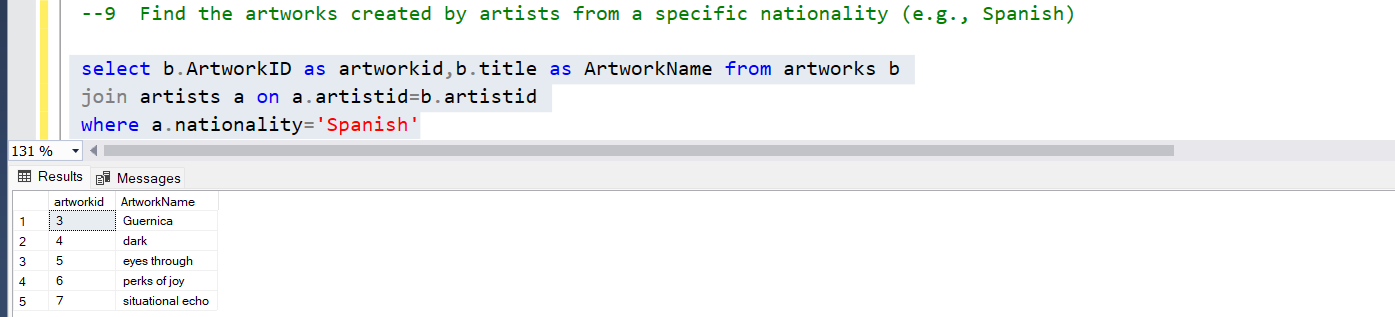
**7.Find the total number of artworks in each category**

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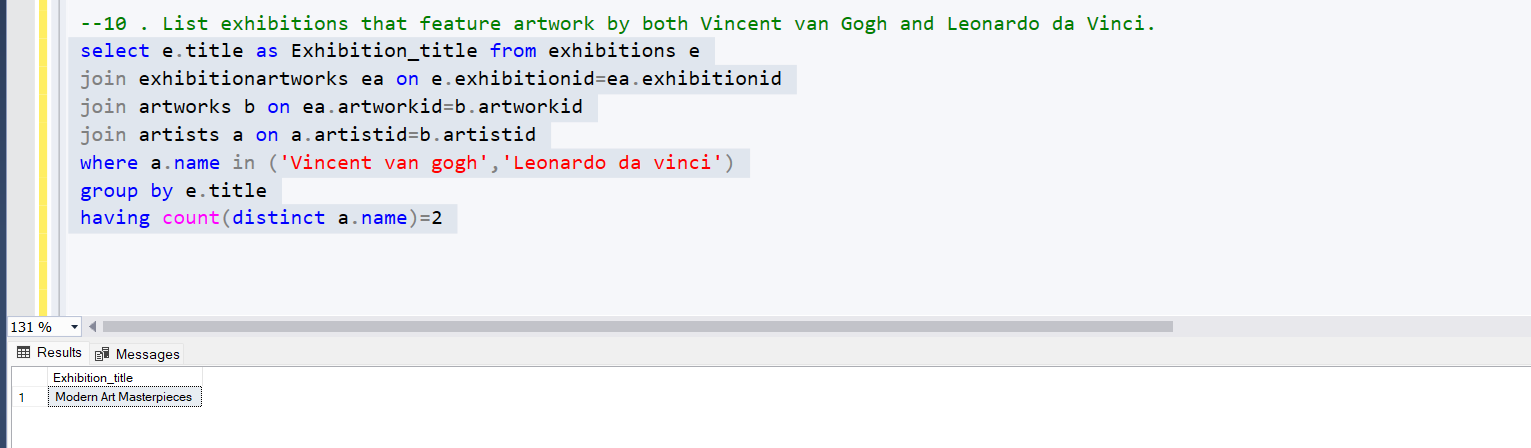
**8.List artists who have more than 3 artworks in the gallery.**

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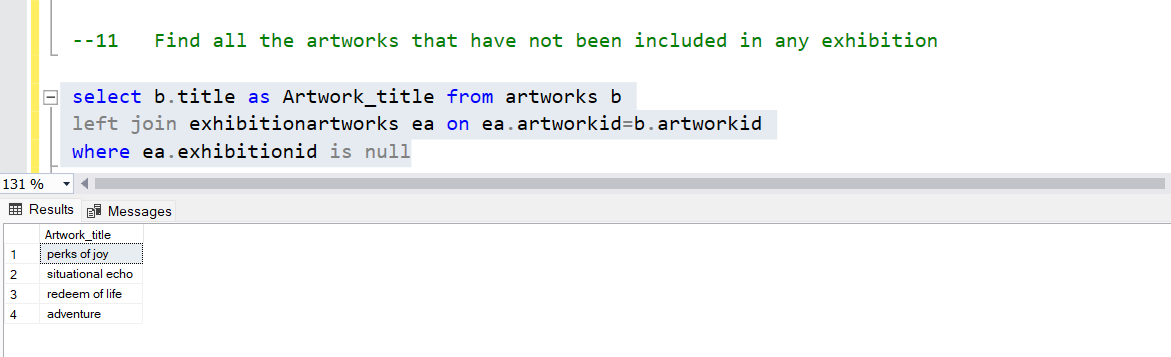
**9. Find the artworks created by artists from a specific nationality (e.g., Spanish).**

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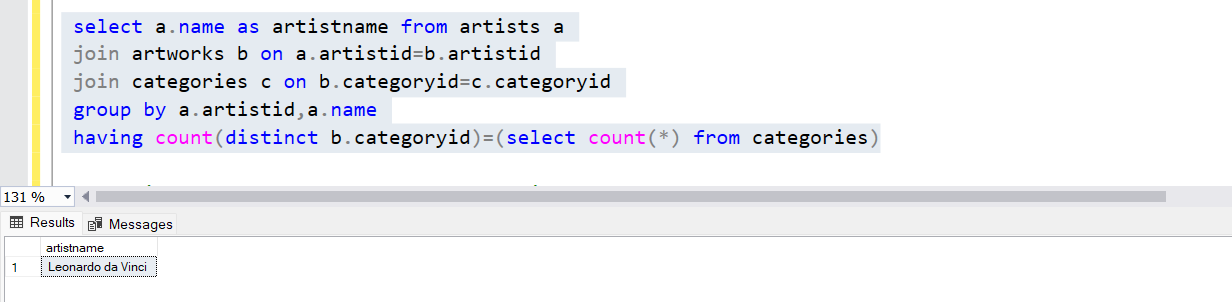
**10. List exhibitions that feature artwork by both Vincent van Gogh and Leonardo da Vinci.**

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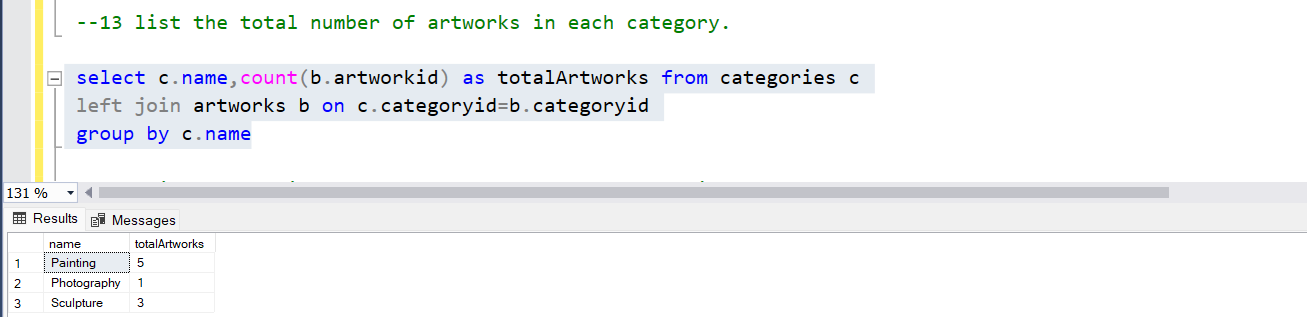
**11. Find all the artworks that have not been included in any exhibition.**

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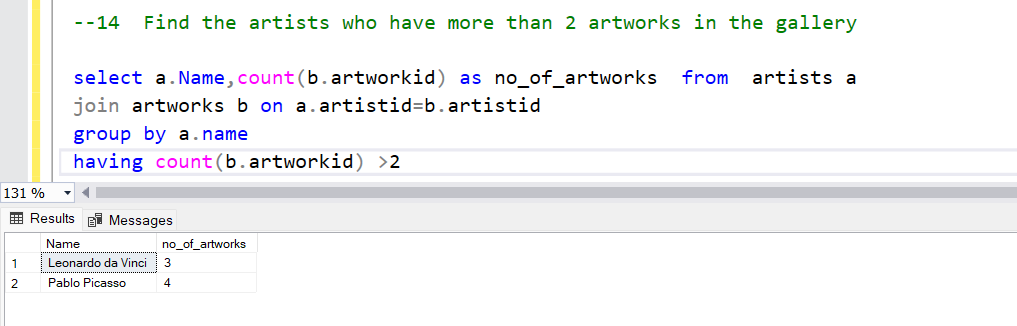
**12. List artists who have created artworks in all available categories.**

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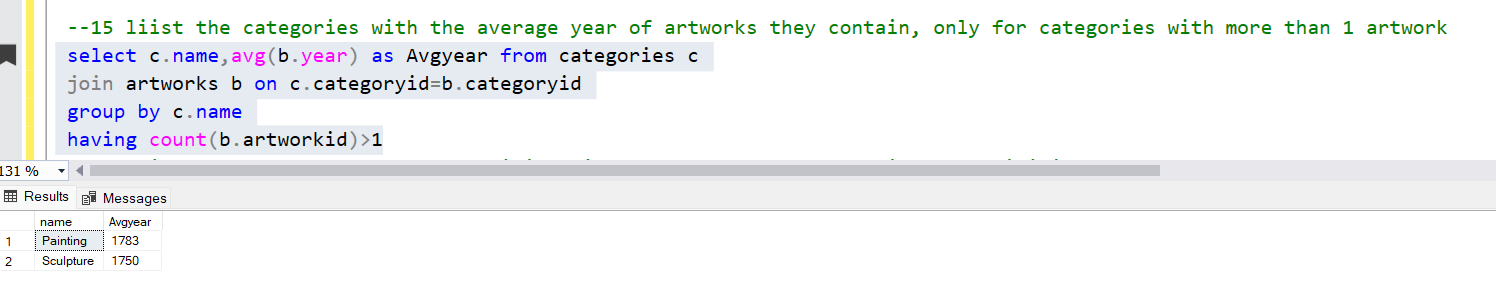
**13. List the total number of artworks in each category.**

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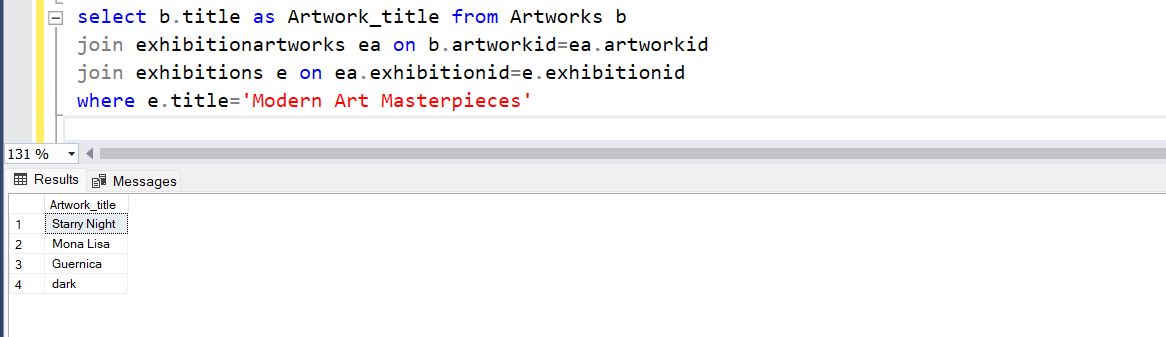
**14. Find the artists who have more than 2 artworks in the gallery.**

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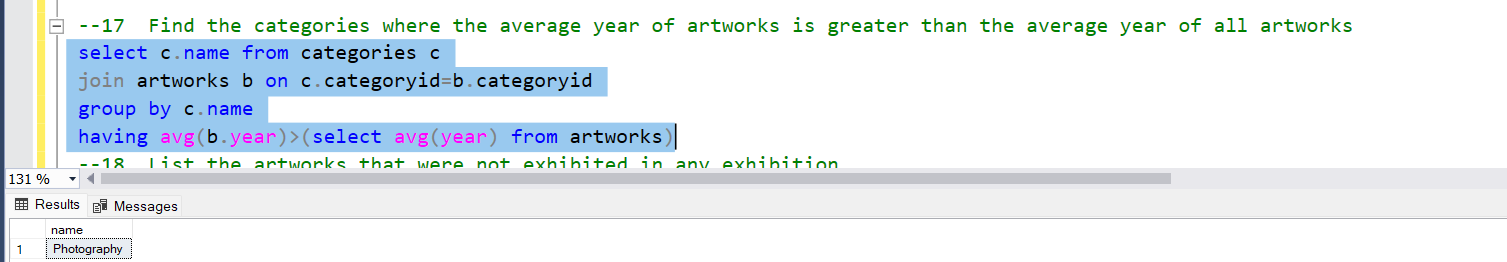
**15. List the categories with the average year of artworks they contain, only for categories with morethan 1 artwork.**

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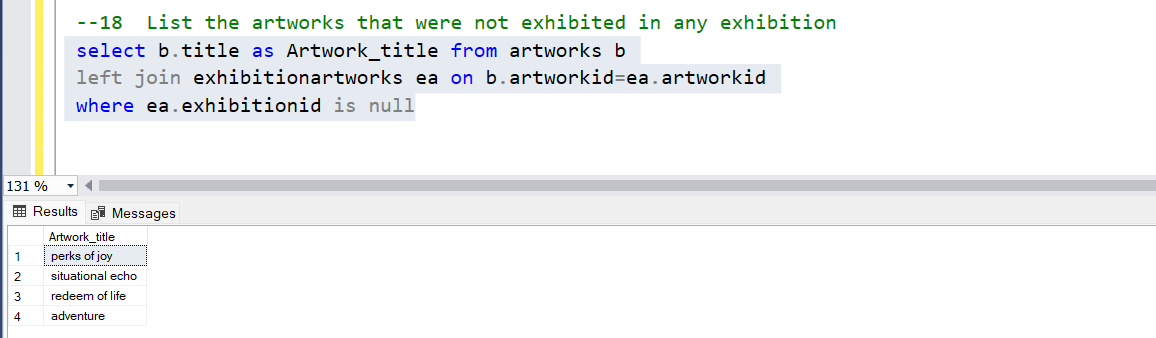
**16. Find the artworks that were exhibited in the 'Modern Art Masterpieces' exhibition.**

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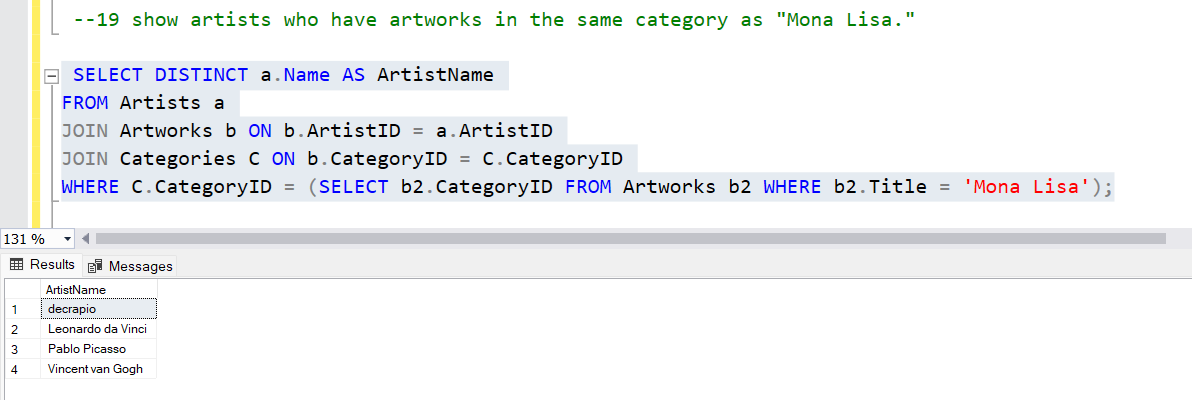
**17. Find the categories where the average year of artworks is greater than the average year of all artworks.**

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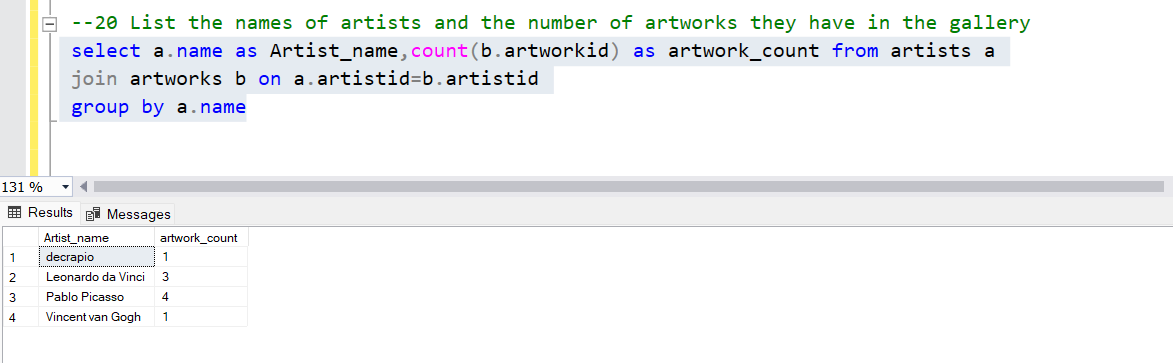
**18. List the artworks that were not exhibited in any exhibition.**

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**19. Show artists who have artworks in the same category as "Mona Lisa.**

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**20.** **List the names of artists and the number of artworks they have in the gallery.**

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