

MySQL Workbench

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practice

SQLTask1

insertion of data*

SQL queries

SQL queries

SQL queries

task2

task3

Creation-of-tables

DDL & DML Queries

SQL File 14*

Limit to 50000 rows

1-- Solve Queries

2

3-- 1. To Retrieve the names of all artists along with the number of artworks they have in t

4• SELECT a.Name, COUNT(b.ArtistID) AS No_of_Artworks

5FROM artists a

6JOIN Artworks b ON a.ArtistID=b.ArtistID

7GROUP BY a.ArtistID

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| Name | No_of_Artworks |
|-------------------|----------------|
| Frida Kahlo | 2 |
| Pablo Picasso | 1 |
| Vincent van Gogh | 1 |
| Leonardo da Vinci | 1 |
| Claude Monet | 1 |
| Salvador Dalí | 1 |
| Andy Warhol | 1 |

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Information

No object selected

SQLAdditions

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or to toggle automatic help.

Result 69

Read Only

Context Help

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-----|----------|---|-------------------|-----------------------|
| 125 | 12:43:08 | SELECT * FROM Artists LIMIT 0, 50000 | 7 row(s) returned | 0.000 sec / 0.000 sec |
| 126 | 12:43:44 | SELECT * FROM Categories LIMIT 0, 50000 | 6 row(s) returned | 0.000 sec / 0.000 sec |
| 127 | 12:44:04 | SELECT * FROM Artworks LIMIT 0, 50000 | 8 row(s) returned | 0.000 sec / 0.016 sec |
| 128 | 12:44:22 | SELECT * FROM Exhibitions LIMIT 0, 50000 | 4 row(s) returned | 0.000 sec / 0.000 sec |
| 129 | 12:44:41 | SELECT * FROM ExhibitionArtworks LIMIT 0, 50000 | 7 row(s) returned | 0.000 sec / 0.000 sec |
| 130 | 12:46:07 | SELECT a.Name, COUNT(b.ArtistID) AS No_of_Artworks FROM artists a JOIN Artworks b ON a.ArtistID=b.Arti... | 7 row(s) returned | 0.000 sec / 0.000 sec |

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Limit to 50000 rows

SQL queries

9

10-- 2. List the titles of artworks created by artists from 'Spanish' and 'Dutch' nationaliti

11• SELECT artworks.*

12FROM artworks

13JOIN artists ON artworks.ArtistID = artists.ArtistID

14WHERE artists.Nationality = 'Spanish' OR artists.Nationality = 'Dutch'

15ORDER BY artworks.Year ASC;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | ArtworkID | Title | ArtistID | CategoryID | Year | Description | ImageURL |
|---|-----------|---------------------------|----------|------------|------|--|------------------------|
| ▶ | 1 | Starry Night | 2 | 1 | 1889 | A famous painting by Vincent van Gogh. | starry_night.jpg |
| | 4 | The Persistence of Memory | 5 | 4 | 1931 | Famous surrealist painting by Salvador Dalí. | persistence_memory.jpg |
| | 3 | Guernica | 1 | 1 | 1937 | Pablo Picasso's powerful anti-war mural. | guernica.jpg |

Result 71

Read OnlyContext HelpSnippets

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|--|-------------------|-----------------------|
| ✓ 127 | 12:44:04 | SELECT * FROM Artworks LIMIT 0, 50000 | 8 row(s) returned | 0.000 sec / 0.016 sec |
| ✓ 128 | 12:44:22 | SELECT * FROM Exhibitions LIMIT 0, 50000 | 4 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 129 | 12:44:41 | SELECT * FROM ExhibitionArtworks LIMIT 0, 50000 | 7 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 130 | 12:46:07 | SELECT a.Name, COUNT(b.ArtistID) AS No_of_Artworks FROM artists a JOIN Artworks b ON a.ArtistID=b.Ar... | 7 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 131 | 12:47:17 | SELECT artworks.* FROM artworks JOIN artists ON artworks.ArtistID = artists.ArtistID WHERE artists.Nationalit... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 132 | 12:47:31 | SELECT artworks.* FROM artworks JOIN artists ON artworks.ArtistID = artists.ArtistID WHERE artists.Nationalit... | 3 row(s) returned | 0.000 sec / 0.000 sec |

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SQL File 14*

Limit to 50000 rows

16

17 -- 3. Find the names of all artists who have artworks in the 'Painting' category, and the r

18 • SELECT a.Name, COUNT(b.ArtistID) AS Artworks_in_Painting

19 FROM artists a

20 JOIN Artworks b ON a.ArtistID=b.ArtistID

21 JOIN Categories c ON b.CategoryID = c.CategoryID

22 WHERE c.Name = 'Painting'

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| Name | Artworks_in_Painting |
|-------------------|----------------------|
| Vincent van Gogh | 1 |
| Leonardo da Vinci | 1 |
| Pablo Picasso | 1 |

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Information

No object selected

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-----|----------|--|-------------------|-----------------------|
| 129 | 12:44:41 | SELECT * FROM ExhibitionArtworks LIMIT 0, 50000 | 7 row(s) returned | 0.000 sec / 0.000 sec |
| 130 | 12:46:07 | SELECT a.Name, COUNT(b.ArtistID) AS No_of_Artworks FROM artists a JOIN Artworks b ON a.ArtistID=b.Arti... | 7 row(s) returned | 0.000 sec / 0.000 sec |
| 131 | 12:47:17 | SELECT artworks.* FROM artworks JOIN artists ON artworks.ArtistID = artists.ArtistID WHERE artists.Nationalit... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 132 | 12:47:31 | SELECT artworks.* FROM artworks JOIN artists ON artworks.ArtistID = artists.ArtistID WHERE artists.Nationalit... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 133 | 12:48:21 | SELECT a.Name, COUNT(b.ArtistID) AS Artworks_in_Painting FROM artists a JOIN Artworks b ON a.ArtistID=... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 134 | 12:49:21 | SELECT a.Name, COUNT(b.ArtistID) AS Artworks_in_Painting FROM artists a JOIN Artworks b ON a.ArtistID=... | 3 row(s) returned | 0.000 sec / 0.000 sec |

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Limit to 50000 rows

25

26-- 4. To List the names of artworks from the 'Modern Art Masterpieces' exhibition, along wi

27• SELECT b.Title,a.Name AS artist_name,c.Name AS category_name

28FROM artworks b

29JOIN artists a ON b.ArtistID = a.ArtistID

30JOIN categories c ON b.CategoryID = c.CategoryID

31JOIN ExhibitionArtworks e ON b.ArtworkID = e.ArtworkID

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | Title | artist_name | category_name |
|---|--------------|-------------------|---------------|
| ▶ | Starry Night | Vincent van Gogh | Painting |
| | Mona Lisa | Leonardo da Vinci | Painting |
| | Guernica | Pablo Picasso | Painting |

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No object selected

SQLAdditions

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or to toggle automatic help.

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|--|-------------------|-----------------------|
| ✓ 130 | 12:46:07 | SELECT a.Name, COUNT(b.ArtistID) AS No_of_Artworks FROM artists a JOIN Artworks b ON a.ArtistID=b.Ar... | 7 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 131 | 12:47:17 | SELECT artworks.* FROM artworks JOIN artists ON artworks.ArtistID = artists.ArtistID WHERE artists.Nationalit... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 132 | 12:47:31 | SELECT artworks.* FROM artworks JOIN artists ON artworks.ArtistID = artists.ArtistID WHERE artists.Nationalit... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 133 | 12:48:21 | SELECT a.Name, COUNT(b.ArtistID) AS Artworks_in_Painting FROM artists a JOIN Artworks b ON a.ArtistID=... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 134 | 12:49:21 | SELECT a.Name, COUNT(b.ArtistID) AS Artworks_in_Painting FROM artists a JOIN Artworks b ON a.ArtistID=... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 135 | 12:50:19 | SELECT b.Title,a.Name AS artist_name,c.Name AS category_name FROM artworks b JOIN artists a ON b.Ar... | 3 row(s) returned | 0.000 sec / 0.000 sec |

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Limit to 50000 rows

38-- 5. To Find the artists who have more than two artworks in the gallery.

39• SELECT a.Name AS ArtistName

40FROM Artists a

41JOIN Artworks b ON a.ArtistID = b.ArtistID

42GROUP BY a.ArtistID

43HAVING COUNT(b.ArtworkID) > 2;

44

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

ArtistName

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|-----|----------|--|-------------------|-----------------------|
| 134 | 12:49:21 | SELECT a.Name, COUNT(b.ArtistID) AS Artworks_in_Painting FROM artists a JOIN Artworks b ON a.ArtistID=... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 135 | 12:50:19 | SELECT b.Title,a.Name AS artist_name,c.Name AS category_name FROM artworks b JOIN artists a ON b.Arti... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 136 | 12:51:36 | SELECT a.Name AS ArtistName,COUNT(b.ArtworkID) FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistI... | 7 row(s) returned | 0.000 sec / 0.000 sec |
| 137 | 12:51:53 | SELECT a.Name AS ArtistName,COUNT(b.ArtworkID) FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistI... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 138 | 12:52:01 | SELECT a.Name AS ArtistName FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistID GROUP BY a.Artist... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 139 | 12:52:10 | SELECT a.Name AS ArtistName FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistID GROUP BY a.Artist... | 0 row(s) returned | 0.000 sec / 0.000 sec |

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SQL File 14*

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

• SELECT b.Title AS ArtworkTitle

FROM Artworks b

JOIN ExhibitionArtworks e ON b.ArtworkID = e.ArtworkID

JOIN Exhibitions ex ON e.ExhibitionID = ex.ExhibitionID

WHERE ex.Title IN ('Modern Art Masterpieces', 'Renaissance Art')

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

ArtworkTitle

Mona Lisa

SQLAdditions

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|--|-------------------|-----------------------|
| ✓ 136 | 12:51:36 | SELECT a.Name AS ArtistName,COUNT(b.ArtworkID) FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistID... | 7 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 137 | 12:51:53 | SELECT a.Name AS ArtistName,COUNT(b.ArtworkID) FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistID... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 138 | 12:52:01 | SELECT a.Name AS ArtistName FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistID GROUP BY a.ArtistID... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 139 | 12:52:10 | SELECT a.Name AS ArtistName FROM Artists a JOIN Artworks b ON a.ArtistID = b.ArtistID GROUP BY a.ArtistID... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 140 | 12:55:43 | SELECT b.Title AS Artwork Title FROM Artworks b JOIN ExhibitionArtworks e ON b.ArtworkID = e.ArtworkID J... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 141 | 12:59:28 | SELECT b.Title AS Artwork Title FROM Artworks b JOIN ExhibitionArtworks e ON b.ArtworkID = e.ArtworkID J... | 1 row(s) returned | 0.000 sec / 0.016 sec |

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SQL File 14*

Limit to 50000 rows

54

55 -- 7. Find the total number of artworks in each category

56 • SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks

57 FROM Categories c

58 LEFT JOIN Artworks a ON c.CategoryID = a.CategoryID

59 GROUP BY c.Name;

60

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | Category | TotalArtworks |
|---|---------------|---------------|
| ▶ | Painting | 3 |
| | Sculpture | 0 |
| | Photography | 0 |
| | Surrealism | 1 |
| | Impressionism | 1 |
| | Abstract | 3 |

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Information

No object selected

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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| # | Time | Action | Message | Duration / Fetch |
|-------|----------|--|-------------------|-----------------------|
| ✓ 144 | 13:01:15 | SELECT b.Title AS ArtworkTitle FROM Artworks b JOIN ExhibitionArtworks e ON b.ArtworkID = e.ArtworkID J... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 145 | 13:02:09 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | 6 row(s) returned | 0.016 sec / 0.000 sec |
| ✓ 146 | 13:02:34 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c JOIN Artworks a O... | 4 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 147 | 13:02:41 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c JOIN Artworks a O... | 4 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 148 | 13:02:49 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | 6 row(s) returned | 0.016 sec / 0.000 sec |
| ✓ 149 | 13:02:56 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |

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66HAVING COUNT(b.ArtistID) >3;

67

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

69• SELECT a.ArtistID,a.Name as Artist_Name,b.*

70FROM artists a

71JOIN artworks b ON a.ArtistID = b.ArtistID

72WHERE a.Nationality = 'Dutch';

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | ArtistID | Artist_Name | ArtworkID | Title | ArtistID | CategoryID | Year | Description | ImageURL |
|---|----------|------------------|-----------|--------------|----------|------------|------|--|------------------|
| ▶ | 2 | Vincent van Gogh | 1 | Starry Night | 2 | 1 | 1889 | A famous painting by Vincent van Gogh. | starry_night.jpg |

Result 91

Read Only

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|--|---|-----------------------|
| ✓ 149 | 13:02:56 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |
| ✗ 150 | 13:04:31 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu... | 0.000 sec |
| ✗ 151 | 13:04:51 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | Error Code: 1054. Unknown column 'a.Name' in 'group statement' | 0.016 sec |
| ✓ 152 | 13:05:00 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 153 | 13:07:28 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 154 | 13:07:39 | SELECT a.ArtistID,a.Name as Artist_Name,b.* FROM artists a JOIN artworks b ON a.ArtistID = b.ArtistID WHE... | 1 row(s) returned | 0.000 sec / 0.000 sec |

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No object selected

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Limit to 50000 rows

WHERE a.Nationality = 'Dutch';

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

• SELECT e.*

FROM exhibitions e

JOIN ExhibitionArtworks ex ON e.ExhibitionID = ex.ExhibitionID

JOIN Artworks b ON ex.ArtworkID = b.ArtworkID

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | ExhibitionID | Title | StartDate | EndDate | Description |
|---|--------------|-------------------------|------------|------------|--|
| ▶ | 1 | Modern Art Masterpieces | 2023-01-01 | 2023-03-01 | A collection of modern art masterpieces. |

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|---|---|-----------------------|
| ✖ 150 | 13:04:31 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu... | 0.000 sec |
| ✖ 151 | 13:04:51 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | Error Code: 1054. Unknown column 'a.Name' in 'group statement' | 0.016 sec |
| ✔ 152 | 13:05:00 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |
| ✔ 153 | 13:07:28 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✔ 154 | 13:07:39 | SELECT a.ArtistID,a.Name as Artist_Name,b.* FROM artists a JOIN artworks b ON a.ArtistID = b.ArtistID WHE... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✔ 155 | 13:08:18 | SELECT e.* FROM exhibitions e JOIN ExhibitionArtworks ex ON e.ExhibitionID = ex.ExhibitionID JOIN Artworks... | 1 row(s) returned | 0.000 sec / 0.000 sec |

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81GROUP BY e.ExhibitionID

82HAVING COUNT(DISTINCT a.Name) = 2;

83

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

85• SELECT a.*

86FROM Artworks a

87JOIN ExhibitionArtworks ex ON a.ArtworkID = ex.ArtworkID

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| ArtworkID | Title | ArtistID | CategoryID | Year | Description | ImageURL |
|-----------|-------|----------|------------|------|-------------|----------|
|-----------|-------|----------|------------|------|-------------|----------|

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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| # | Time | Action | Message | Duration / Fetch |
|-----|----------|---|--|-----------------------|
| 151 | 13:04:51 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | Error Code: 1054. Unknown column 'a.Name' in 'group statement' | 0.016 sec |
| 152 | 13:05:00 | SELECT c.Name AS Category, COUNT(a.ArtworkID) AS TotalArtworks FROM Categories c LEFT JOIN Artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |
| 153 | 13:07:28 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 154 | 13:07:39 | SELECT a.ArtistID,a.Name as Artist_Name,b.* FROM artists a JOIN artworks b ON a.ArtistID = b.ArtistID WHE... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 155 | 13:08:18 | SELECT e.* FROM exhibitions e JOIN ExhibitionArtworks ex ON e.ExhibitionID = ex.ExhibitionID JOIN Artworks... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 156 | 13:08:41 | SELECT a.* FROM Artworks a JOIN ExhibitionArtworks ex ON a.ArtworkID = ex.ArtworkID WHERE ex.Exhibiti... | 0 row(s) returned | 0.000 sec / 0.000 sec |

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94JOIN Categories c ON art.CategoryID = c.CategoryID

95GROUP BY a.ArtistID, a.Name

96HAVING COUNT(DISTINCT art.CategoryID) =(SELECT COUNT(*) FROM Categories);

97

98-- 13. List the total number of artworks in each category.

99• SELECT c.Name as Category, COUNT(b.ArtworkID) as Total_Artworks

100FROM categories c

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | Category | Total_Artworks |
|---|---------------|----------------|
| ▶ | Painting | 3 |
| | Sculpture | 0 |
| | Photography | 0 |
| | Surrealism | 1 |
| | Impressionism | 1 |
| | Abstract | 3 |

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 95

Read OnlyContext HelpSnippets

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|---|-------------------|-----------------------|
| ✓ 153 | 13:07:28 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 154 | 13:07:39 | SELECT a.ArtistID,a.Name as Artist_Name,b.* FROM artists a JOIN artworks b ON a.ArtistID = b.ArtistID WHE... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 155 | 13:08:18 | SELECT e.* FROM exhibitions e JOIN ExhibitionArtworks ex ON e.ExhibitionID = ex.ExhibitionID JOIN Artworks... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 156 | 13:08:41 | SELECT a.* FROM Artworks a JOIN ExhibitionArtworks ex ON a.ArtworkID = ex.ArtworkID WHERE ex.Exhibiti... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 157 | 13:09:08 | SELECT a.Name FROM Artists a JOIN Artworks art ON a.ArtistID = art.ArtistID JOIN Categories c ON art.Categ... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 158 | 13:09:16 | SELECT c.Name as Category, COUNT(b.ArtworkID) as Total_Artworks FROM categories c LEFT JOIN artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |

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

SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork

FROM artists a

JOIN artworks b ON a.ArtistID = b.ArtistID

GROUP BY a.ArtistID

HAVING COUNT(b.ArtworkID) >=2;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| artist_name | Total_artwork |
|-------------|---------------|
| Frida Kahlo | 2 |

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 98

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Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|-----|----------|---|-------------------|-----------------------|
| 156 | 13:08:41 | SELECT a.* FROM Artworks a JOIN ExhibitionArtworks ex ON a.ArtworkID = ex.ArtworkID WHERE ex.Exhibiti... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 157 | 13:09:08 | SELECT a.Name FROM Artists a JOIN Artworks art ON a.ArtistID = art.ArtistID JOIN Categories c ON art.Categ... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 158 | 13:09:16 | SELECT c.Name as Category, COUNT(b.ArtworkID) as Total_Artworks FROM categories c LEFT JOIN artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |
| 159 | 13:09:39 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 160 | 13:09:48 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 161 | 13:10:08 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |

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FROM Artworks a

JOIN Categories c ON a.CategoryID = c.CategoryID

GROUP BY c.CategoryID, c.Name

HAVING COUNT(a.ArtworkID) > 1;

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

SELECT a.*

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| Category | Avg_Year |
|----------|-----------|
| Painting | 1776.3333 |
| Abstract | 1947.0000 |

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|-----|----------|---|-------------------|-----------------------|
| 157 | 13:09:08 | SELECT a.Name FROM Artists a JOIN Artworks art ON a.ArtistID = art.ArtistID JOIN Categories c ON art.Categ... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 158 | 13:09:16 | SELECT c.Name as Category, COUNT(b.ArtworkID) as Total_Artworks FROM categories c LEFT JOIN artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |
| 159 | 13:09:39 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 160 | 13:09:48 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 161 | 13:10:08 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 162 | 13:10:32 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 2 row(s) returned | 0.000 sec / 0.000 sec |

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Limit to 50000 rows

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125

SELECT a.*

FROM artworks a

JOIN ExhibitionArtworks ex on a.ArtworkID = ex.ArtworkID

JOIN Exhibitions e ON ex.ExhibitionID = e.ExhibitionID

WHERE e.Title = 'Modern Art Masterpieces';

-- 17. categories where the average year of artworks is greater than the average year of al

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | ArtworkID | Title | ArtistID | CategoryID | Year | Description | ImageURL |
|---|-----------|--------------|----------|------------|------|---|------------------|
| ▶ | 1 | Starry Night | 2 | 1 | 1889 | A famous painting by Vincent van Gogh. | starry_night.jpg |
| | 2 | Mona Lisa | 3 | 1 | 1503 | The iconic portrait by Leonardo da Vinci. | mona_lisa.jpg |
| | 3 | Guernica | 1 | 1 | 1937 | Pablo Picasso's powerful anti-war mural. | guernica.jpg |

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 100

Read OnlyContext HelpSnippets

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|---|-------------------|-----------------------|
| ✓ 158 | 13:09:16 | SELECT c.Name as Category, COUNT(b.ArtworkID) as Total_Artworks FROM categories c LEFT JOIN artwor... | 6 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 159 | 13:09:39 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 160 | 13:09:48 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 161 | 13:10:08 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 162 | 13:10:32 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 163 | 13:10:51 | SELECT a.* FROM artworks a JOIN ExhibitionArtworks ex on a.ArtworkID = ex.ArtworkID JOIN Exhibitions e O... | 3 row(s) returned | 0.000 sec / 0.000 sec |

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

SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year

FROM Artworks a

JOIN Categories c ON a.CategoryID = c.CategoryID

GROUP BY c.CategoryID, c.Name

HAVING AVG(a.Year) > (SELECT AVG(Year) FROM Artworks);

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | Category | Avg_Year |
|--|---------------|-----------|
| | Surrealism | 1931.0000 |
| | Impressionism | 1919.0000 |
| | Abstract | 1947.0000 |

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 101

Read OnlyContext HelpSnippets

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-----|----------|---|-------------------|-----------------------|
| 159 | 13:09:39 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 0 row(s) returned | 0.000 sec / 0.000 sec |
| 160 | 13:09:48 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 161 | 13:10:08 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 162 | 13:10:32 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| 163 | 13:10:51 | SELECT a.* FROM artworks a JOIN ExhibitionArtworks ex on a.ArtworkID = ex.ArtworkID JOIN Exhibitions e O... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 164 | 13:11:10 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 3 row(s) returned | 0.000 sec / 0.000 sec |

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134 • SELECT a.Title

135 FROM Artworks a

136 LEFT JOIN ExhibitionArtworks ea ON a.ArtworkID = ea.ArtworkID

137 WHERE ea.ExhibitionID IS NULL;

138

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

140 • SELECT a.Name as Artist name

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Title

Campbell's Soup Cans

Self-Portrait with Thorn Necklace

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 102

Read OnlyContext HelpSnippets

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|---|-------------------|-----------------------|
| ✓ 160 | 13:09:48 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 161 | 13:10:08 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 162 | 13:10:32 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 163 | 13:10:51 | SELECT a.* FROM artworks a JOIN ExhibitionArtworks ex on a.ArtworkID = ex.ArtworkID JOIN Exhibitions e O... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 164 | 13:11:10 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 165 | 13:11:30 | SELECT a.Title FROM Artworks a LEFT JOIN ExhibitionArtworks ea ON a.ArtworkID = ea.ArtworkID WHERE ... | 2 row(s) returned | 0.000 sec / 0.000 sec |

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SQL File 14*

Limit to 50000 rows

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

142 JOIN artworks b on a.ArtistID = b.ArtistID

143 WHERE b.CategoryID IN (

144 SELECT CategoryID

145 from artworks

146 WHERE Title = 'Mona Lisa'

147);

148

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Artist_name

Vincent van Gogh

Leonardo da Vinci

Pablo Picasso

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No object selected

Result 103

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-----|----------|---|-------------------|-----------------------|
| 161 | 13:10:08 | SELECT a.Name AS artist_name , COUNT(b.ArtworkID) AS Total_artwork FROM artists a JOIN artworks b ON... | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 162 | 13:10:32 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| 163 | 13:10:51 | SELECT a.* FROM artworks a JOIN ExhibitionArtworks ex on a.ArtworkID = ex.ArtworkID JOIN Exhibitions e O... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 164 | 13:11:10 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 165 | 13:11:30 | SELECT a.Title FROM Artworks a LEFT JOIN ExhibitionArtworks ea ON a.ArtworkID = ea.ArtworkID WHERE ... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| 166 | 13:11:51 | SELECT a.Name as Artist_name FROM artists a JOIN artworks b on a.ArtistID = b.ArtistID WHERE b.CategoryI... | 3 row(s) returned | 0.000 sec / 0.000 sec |

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151FROM artists a

152JOIN artworks b ON a.ArtistID = b.ArtistID

153GROUP by Artist_name

154ORDER BY TotalCount DESC;

155

156

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | Artist_name | TotalCount |
|---|-------------------|------------|
| ▶ | Frida Kahlo | 2 |
| | Pablo Picasso | 1 |
| | Vincent van Gogh | 1 |
| | Leonardo da Vinci | 1 |
| | Claude Monet | 1 |
| | Salvador Dalí | 1 |
| | Andy Warhol | 1 |

Result 104

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Action Output

| # | Time | Action | Message | Duration / Fetch |
|-------|----------|---|-------------------|-----------------------|
| ✓ 162 | 13:10:32 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 163 | 13:10:51 | SELECT a.* FROM artworks a JOIN ExhibitionArtworks ex on a.ArtworkID = ex.ArtworkID JOIN Exhibitions e O... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 164 | 13:11:10 | SELECT c.Name AS Category, AVG(a.Year) AS Avg_Year FROM Artworks a JOIN Categories c ON a.Categor... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 165 | 13:11:30 | SELECT a.Title FROM Artworks a LEFT JOIN ExhibitionArtworks ea ON a.ArtworkID = ea.ArtworkID WHERE ... | 2 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 166 | 13:11:51 | SELECT a.Name as Artist_name FROM artists a JOIN artworks b on a.ArtistID = b.ArtistID WHERE b.Categoryl... | 3 row(s) returned | 0.000 sec / 0.000 sec |
| ✓ 167 | 13:12:12 | SELECT a.Name as Artist_name , COUNT(b.ArtworkID) AS TotalCount FROM artists a JOIN artworks b ON a.... | 7 row(s) returned | 0.000 sec / 0.000 sec |

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.