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1  -- 1. Retrieve the full name of artists along with the names of the museums where their works are displayed.
2
3  • select full_name as Artist_Name, museum.name as Museum_Name from artist
4    join work
5    on artist.artist_id = work.artist_id
6    join museum
7    on museum.museum_id = work.museum_id
8    group by Artist_Name, Museum_Name;

```

Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 





	Artist_Name	Museum_Name
▶	Pierre-Auguste Renoir	The Barnes Foundation
	Pierre-Auguste Renoir	Musée d'Orsay
	Pierre-Auguste Renoir	Philadelphia Museum of Art
	Pierre-Auguste Renoir	The J. Paul Getty Museum
	Pierre-Auguste Renoir	The Art Institute of Chicago
	Pierre-Auguste Renoir	The Metropolitan Museum of Art
	Pierre-Auguste Renoir	National Gallery
	Alexandre Cabanel	Philadelphia Museum of Art
	Alexandre Cabanel	The Metropolitan Museum of Art
	Alexandre Cabanel	Musée d'Orsay
	Maximilien Luce	Musée d'Orsay
	August Mørke	Thussen-Bornemisza Museum

```
1  -- 2. Group By and Count:
2  -- How many works does each artist have in the database?
3  -- Display the artist's full name along with the count of their works, ordered by the count in descending order.
4
5  • select full_name as Artist_Name, count(work.work_id) as Count_of_Works from artist
6  join work
7  on artist.artist_id = work.artist_id
8  group by Artist_Name
9  order by Count_of_Works desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Artist_Name	Count_of_Works
▶	Peter Paul Rubens	56
	Claude Monet	45
	Jean Baptiste Vanmour	30
	Francesco Guardi	28
	Jan Steen	28
	Anton Raphael Mengs	27
	Francisco De Goya	27
	John Singleton Copley	27
	Ivan Aivazovskiy	25
	Paul Cézanne	25
	Rembrandt Van Rijn	24
	Gerard Ter Borch	23

```
1  -- 3. Order By and Limit:
2  -- List the top 5 museums with the highest number of works displayed in the database, along with their respective counts.
3
4  • select museum.name as Museum_Name, count(work.work_id) as Count_of_Works from museum
5  join work
6  on museum.museum_id = work.museum_id
7  group by Museum_Name
8  order by Count_of_Works desc
9  limit 5;
```




Result Grid   Filter Rows:  | Export:  | Wrap Cell Content:  | Fetch rows: 

Museum_Name	Count_of_Works
The Metropolitan Museum of Art	536
Rijksmuseum	352
National Gallery	314
National Gallery of Art	175
National Maritime Museum	131

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1  -- 4. Join, Order By, and Limit:
2  -- Display the names and styles of the works along with the corresponding museum names,
3  -- ordered by the museum name in ascending order. Limit the results to 10.
4
5  • select museum.name as Museum_Name, work.name as Painting_Name, work.style as Style from museum
6  join work
7  on museum.museum_id = work.museum_id
8  order by Museum_Name asc
9  limit 10;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content:  Fetch rows: 

Museum_Name	Painting_Name	Style
Cleveland Museum Of Art	Memento Mori To This Favour	Realism
Cleveland Museum Of Art	Sleeping Peasant near Fields	
Cleveland Museum Of Art	Portrait of George Pitt, First Baron Rivers	Rococo
Cleveland Museum Of Art	View of Rome	American Landscape
Cleveland Museum Of Art	View of Schroon Mountain, Essex County, New ...	American Landscape
Cleveland Museum Of Art	Portrait of Mrs Leneve	Baroque
Cleveland Museum Of Art	Wild Boars in the Snow	Realism
Cleveland Museum Of Art	Fort George Island, Florida	American Landscape
Cleveland Museum Of Art	Portrait of King Charles II of England	Baroque
Cleveland Museum Of Art	View of Florence	American Landscape

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1  -- 5.Join, Group By, and Sum:
2  -- Show the total sale price for each artist's works.
3  -- Display the artist's full name along with the total sale price, ordered by the total sale price in descending order.
4
5  select full_name as Artist_Name, sum(sale_price) as Sales_Price from artist
6  join work
7  on artist.artist_id = work.artist_id
8  join product_size
9  on work.work_id = product_size.work_id
10 group by Artist_Name
11 order by Sales_Price desc;

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

Artist_Name	Sales_Price
Peter Paul Rubens	173845
Claude Monet	104545
Jean Baptiste Vanmour	96920
John Singleton Copley	92705
Francesco Guardi	90300
Jan Steen	87155
Adriaan De Lelie	80640
Anton Raphael Mengs	79545
Francisco De Goya	78910
Rembrandt Van Rijn	78540
Thomas Sully	76025
Paul Cézanne	72210

Result 6 x


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1  -- 6. Join, Group By, and Having:
2  -- List artists who have more than 3 works in the database, along with the count of their works.
3
4  • select artist.full_name as Artist_Name, count(work.work_id) as Work_Count from artist
5  join work
6  on artist.artist_id = work.artist_id
7  group by Artist_Name
8  having Work_Count > 3;
```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	Artist_Name	Work_Count
▶	Abraham Mignon	6
	Adriaan De Lelie	15
	Aelbert Cuyp	21
	Albert Andr��	5
	Albert Bierstadt	11
	Albrecht Durer	10
	Alexandre Cabanel	4
	Alfred Henry Maurer	4
	Alfred Sisley	11
	Amedeo Modigliani	15
	Andr�� Derain	9
	Antoine-Jean Gros	5

Result 7 x

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1  -- 7. Join, Where, and Order By:
2  -- Retrieve the names of works and their corresponding artists' full names for works
3  -- that have a sale price smaller than their regular price.
4
5  • select full_name as Artist_Name, work.name as Work_Name, sale_price as Sales_Price, regular_price as Regular_Price from artist
6  join work
7  on artist.artist_id = work.artist_id
8  join product_size
9  on work.work_id = product_size.work_id
10 where sale_price < regular_price;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content:  Fetch rows: 

	Artist_Name	Work_Name	Sales_Price	Regular_Price
▶	Albrecht Adam	Horses at the Porch	305	535
	Albrecht Adam	Horses at the Porch	325	575
	Albrecht Adam	Horses at the Porch	375	675
	Albrecht Adam	Horses at the Porch	405	735
	Albrecht Adam	Horses at the Porch	495	915
	Albrecht Adam	Horses at the Porch	675	1275
	Albrecht Adam	Horses at the Porch	805	1535
	AdÃ©laÃ©de Labille-Guiard	Madame de Genlis	305	545
	AdÃ©laÃ©de Labille-Guiard	Madame de Genlis	325	585
	AdÃ©laÃ©de Labille-Guiard	Madame de Genlis	375	685
	AdÃ©laÃ©de Labille-Guiard	Madame de Genlis	405	745
	AdÃ©laÃ©de Labille-Guiard	Madame de Genlis	495	925

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1  -- 8. Join, Group By, and Average:
2  -- Calculate the average height and width of the artworks in the database. Display the average height and width.
3
4  • select work.name as Work_Name,
5     round(avg(canvas_size.height), 2) as Avg_Height,
6     round(avg(canvas_size.width), 2) as Avg_Width
7  from work join product_size on
8     work.work_id = product_size.work_id
9  join canvas_size on
10     product_size.size_id = canvas_size.size_id
11  group by Work_Name;

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	Work_Name	Avg_Height	Avg_Width
▶	Still Life with Flowers and a Watch	0	27.00
	Still Life with Fruit and a Beaker on a Cock's Foot	0	27.00
	Still Life with Fruit and a Goldfinch	0	27.00
	Still Life with Fruit and Oysters	0	27.00
	Still Life with Fruit, Oysters, and a Porcelain Bowl	0	27.00
	The Overturned Bouquet	0	27.00
	Horses at the Porch	24.7	38.80
	Madame de Genlis	44.86	35.29
	Portrait of Madame Labille-Guyard and Her Pupils	38.29	34.86
	Portrait of the Painter Vincent	44.86	35.29
	Portrait de la Famille de l'Artiste Posant Devant l...	39.4	50.40
	Portrait of Auguste Vestris. French Dancer	39.78	31.44

Result 9 x

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1  -- Join, Group By, and Max:
2  -- 9 Find the maximum sale price among all the works in each museum.
3  -- Display the museum name along with the maximum sale price.
4
5  • select museum.name as Museum_Name, max(product_size.sale_price) as Maximum_Sales_Price
6  from museum join work
7  on museum.museum_id = work.museum_id
8  join product_size
9  on work.work_id = product_size.work_id
10 group by Museum_Name;

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	Museum_Name	Maximum_Sales_Price
▶	Rijksmuseum	1055
	The State Hermitage Museum	1005
	Los Angeles County Museum of Art	1005
	The Metropolitan Museum of Art	1005
	Musée du Louvre	925
	National Gallery of Art	1025
	National Gallery	1085
	The Tate Gallery	1005
	The J. Paul Getty Museum	1025
	Cleveland Museum Of Art	1005
	Thussen-Bornemisza Museum	1005
	The Prado Museum	1115

Result 10 x

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1  -- Join, Group By, and Concatenate:
2  -- 10. Concatenate the first name and last name of artists along with their nationality, separated by a comma.
3  -- Display the concatenated string along with the count of works by each artist, ordered by the count in descending order.
4
5  select concat(artist.first_name, ',', artist.last_name, ',', artist.nationality) as Artist_Info, count(work.artist_id) as Work_Count
6  from artist join work
7  on artist.artist_id = work.artist_id
8  group by Artist_Info
9  order by Work_Count desc;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	Artist_Info	Work_Count
▶	Peter,Rubens,Flemish	56
	Claude,Monet,French	45
	Jean,Vanmour,Flemish	30
	Francesco,Guardi,Italian	28
	Jan,Steen,Dutch	28
	Anton,Mengs,German	27
	Francisco,De Goya,Spanish	27
	John,Copley,American	27
	Ivan,Aivazovskiy,Russian	25
	Paul,Cezanne,French	25
	Rembrandt, Van Rijn,Dutch	24
	Gerard.Ter Borch,Dutch	23

Result 11 x

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