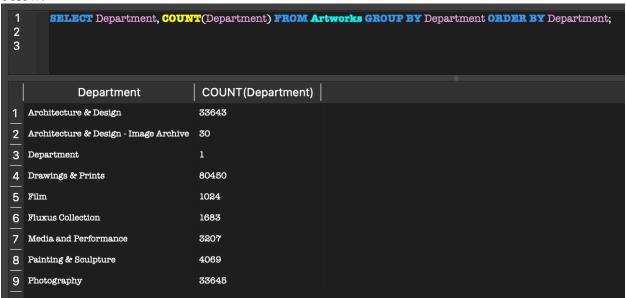Artworks Table
DM-GY 9103 Conservation Of AI-Based Artworks

1. How many artworks are on file? Next, list how many artworks are under the care of each department along with the name of the department and in alphabetical order by department name. [1 point]

There's a total of 157752 entries in the artworks table. The list of department names are given below:

```
1    SELECT Department, COUNT(Department) FROM Artworks GROUP BY Department ORDER BY Department;
2
3
```

Department	COUNT(Department)
1 Architecture & Design	33643
2 Architecture & Design - Image Archive	30
3 Department	1
4 Drawings & Prints	80450
5 Film	1024
6 Fluxus Collection	1683
7 Media and Performance	3207
8 Painting & Sculpture	4069
9 Photography	33645

SELECT Department, COUNT(Department)
FROM Artworks
GROUP BY Department
ORDER BY Department;

Architecture & Design	33643
Architecture & Design - Image Archive	30
Department	1
Drawings & Prints	80450
Film	1024
Fluxus Collection	1683
Media and Performance	3207
Painting & Sculpture	4069
Photography	33645

2. How many distinct classifications does MoMA use for the artworks in its collection? Next list the classifications in alphabetical order along with how many works in each. Are there any artworks that have not been classified and how would you check for them? [2 points]

There are a total of 40 classifications acquired through the following query:

SELECT Classification, COUNT(Classification)
FROM Artworks
GROUP BY Classification
ORDER BY Classification;

Listed below are the 40 classifications in alphabetical order:

(not assigned)	689		Media	41
Architectural Model	1		Mies van der Rohe Archive	16306
Architecture	4255		Moving Image	2
Audio	794		Multiple	1182
Classification	1		News Clipping	1
Collage	32		Notebook	1966
Correspondence	9		Painting	2438
Design	12238		Performance	32
Digital	3		Periodical	950
Document	2		Photograph	34810
Drawing	14231		Photography Research/Reference	6
Ephemera	613		Poster	91
Fashion	1		Print	32592
Film	151		Publication	3
Film (object)	2		Sculpture	1792
Frank Lloyd Wright Archive	870		Software	3
Furniture and Interiors	2		Textile	34
Graphic Design	5		Video	2424
Illustrated Book	27869		Wallpaper	22
Installation	908		Work on Paper	381

To find if there are any left out we can use this query to be sure:

SELECT Classification FROM Artworks WHERE Classification=NULL;

The NULL values would also show up when listing it using the query we previously used, but it looks like for any artwork without a classification they have used the (not assigned) classification.

3. List the accession number, title, artist, date [created], date acquired, medium, and department for the first 25 works which were acquired under the Department of Photography. [1 point]

Using the following query:

SELECT AccessionNumber, Title, Artist, Date, DateAcquired, Medium, Department
FROM Artworks
WHERE Department = "Photography"
ORDER BY DateAcquired
LIMIT 25;

We get the results:

AccessionNumber	Title	Artist	Date	DateAcquired	Medium	Department
36.1932	New York City, Old and New	Clara E. Sipprell	c. 1920	1932-12-16	Gelatin silver print	Photography
4.1933	Houses, Salem, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
5.1933	Houses, Nahant, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
6.1933	Houses, Dorchester, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
7.1933	House, Cambridge, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
8.1933	Houses, Columbia Heights, Brooklyn, New York	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
9.1933	House, South End, Boston, Massachusetts	Walker Evans	1933	1933-04-13	Gelatin silver print	Photography
10.1933	House, Greek Influence, Northampton, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
11.1933	Valentine House (1851), Cambridge, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
12.1933	House, South End, Boston, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
13.1933	House, Cambridge, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
14.1933	House, Cambridge, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
15.1933	House, Waltham, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography

16.1933	House, Northampton, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
17.1933	House	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
18.1933	House, Northampton, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
19.1933	House, Greenfield, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
20.1933	House, Dorchester, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
21.1933	House, Brookline, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
22.1933	House, Somerville, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
23.1933	Mansard House	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
24.1933	Mansard House, Cambridge, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
25.1933	Mansard House	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
26.1933	Mansard House, South End, Boston, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography
27.1933	Mansard House, Cambridge, Massachusetts	Walker Evans	1932	1933-04-13	Gelatin silver print	Photography

4. List the accession number, title, artist, date, department and medium for the 20 most recently made artworks by Brazilian artists in the collection. [1 point] Does this query return a reasonable result? If not, what would you need to do differently? (You may describe your actions rather than write SQL queries to repair the table if needed.)

Before I get into the complications involving nationality let us look at the dates.
It seems to be quite difficult to get accurate results as there are different formats for the date column like the following:

(2004)
(c. 1957)
(newspaper published December 2, 2002)
1921
1921 (executed 1920)

Considering this, DateAcquired(Which seems to have a proper structure) seems easier to work with, but the problem with that is that it's not similar to the date the artwork was made. One trick we could use is that the recent artworks are mostly made in the 2000's and we could use that to our advantage and write a query like this:

SELECT AccessionNumber, Title, Artist, Nationality, Date, Medium, Department
FROM Artworks
WHERE Nationality LIKE "%Brazilian%"
AND Date LIKE "%20%"
AND Date NOT LIKE "%c.%"
ORDER BY Date Desc
LIMIT 25;

I did the AND Date NOT LIKE "%c.%" because the dates with "c." in them were not recent and had to be removed.

Which gives us the following results, which seems reasonable

362.2024	Um poema desenhado (A Drawn Poem)	Sonia Gomes	(Brazilian)	2024	Artist's book with 34 offset printed and screen printed pages (17 leaves) on paper and translucent vellum, some with additions in thread, fabric, lace, yarn, and cut-and-stapled printed papers; coptic binding with hardcover boards covered in printed Brazilian cloth; plus 2 inserts in the back pocket: a print with thread additions and an offset printed booklet of texts	Drawings & Prints
119.2023	Olho da Rua (Out Loud)	Jonathas de Andrade	(Brazilian)	2022	High-definition video (color, sound)	Media and Performance
143.2024	Fala da Terra (Voice of the Land)	Bárbara Wagner, Benjamin de Burca	(Brazilian) (German)	2022	High-definition video (color, sound)	Media and Performance
124.2024.1-61	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, oil pastel, and spray paint on torn paper, sixty-one sheets	Drawings & Prints
124.2024.1	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints

124.2024.2	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.3	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.4	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, oil pastel, and spray paint on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.5	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.6	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, and oil pastel on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.7	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.8	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, and oil pastel on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.9	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.10	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, oil pastel, and spray paint on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.11	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.12	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, oil pastel, and spray paint on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.13	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints

124.2024.14	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, oil pastel, and spray paint on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.15	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.16	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, and oil pastel on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.17	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.18	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, oil pastel, and spray paint on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.19	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.20	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil, colored pencil, and oil pastel on torn paper; one from a series of sixty-one sheets	Drawings & Prints
124.2024.21	ave preta mística mystical black bird	Tadáskía	(Brazilian)	2022	Pencil on torn paper; one from a series of sixty-one sheets	Drawings & Prints

Coming back to the nationality, there are many artworks which are done by a group of people; therefore the nationality is a list of nationalities of each of that person. So, we need to confirm if we need the results of artworks that any Brazilian artist has also worked on or are we looking for purely Brazilian works? Either way the recent 25 that I have listed above mostly has only artworks made by Brazilians, except for one, but since the ask was for the recent 20, I think this covers it.

5. Select a specific artist whose work(s) at MoMA are of interest to you. What can you learn about that artist with respect to the MoMA collection overall by writing three SQL queries? For example, what percentage of the artist's works are associated with a webpage (and therefore publicly available)? [3 points]

I've decided to take a look at the works of the artist Yoko Ono using the following queries.

SELECT ARTIST, COUNT(Artist) FROM Artworks GROUP BY Artist;
SELECT * FROM Artworks WHERE Artist="Yoko Ono";
SELECT * FROM Artworks WHERE Artist LIKE "%Yoko Ono%";

Just from looking at the data I can see the following information:

Yoko Ono has:
- 93 artworks made without collaboration.
- 127 total artworks.
- There is no End Date.

Querying further lets see what information we are able to extract:

SELECT URL, COUNT(URL) FROM Artworks WHERE Artist LIKE "%Yoko Ono%" GROUP BY URL;

Using this query, we can see that there are 47 NULL values and 80 URLs available making approximately 2/3^{rds} of these artworks publicly available.

SELECT Medium, COUNT(Medium)
FROM Artworks
WHERE Artist LIKE "%Yoko Ono%"
GROUP BY Medium
ORDER BY COUNT(Medium) DESC;

Ink on paper	23
Gelatin silver print	13
NULL	10
16mm film (black and white, silent)	6
Offset lithograph	4
VHS	3
Offset	3
Artist's book, offset printed	3
7-inch vinyl record	3
Plastic box containing 20 offset cards	2

Using the above query, we can see that the majority of the works are made with mediums mentioned in the table above with a majority of it being in Ink on paper and Gelatin silver print. Theres also 10 artworks for which we do not know the medium.

6. Write two original queries to learn more about the MoMA collection. In what context would the results be useful? [2 points]

I used the following query:

SELECT Cataloged, COUNT(CATALOGED) FROM Artworks GROUP BY Cataloged;

Cataloged	1
N	57349
Y	100402

To find out how many of the artworks have been catalogued. We have 2/3^{rds} of the artworks catalogued. Out of the artworks that are not catalogued these are the major Nationalities that have uncatalogued artworks:

SELECT Nationality, COUNT(Nationality) AS COUNT
FROM Artworks
WHERE Cataloged = "N"
AND DateAcquired!="NULL"
GROUP BY NATIONALITY
ORDER BY COUNT DESC;

(American)	26662
(French)	11671
()	1961
(British)	1605
(German)	1477
NULL	1050
(Italian)	826
(Spanish)	746
(Russian)	719
(Belgian)	640
(Japanese)	473
(Swiss)	457
(Mexican)	395

(American) (American)	364
(Czech)	345
(Chilean)	292
(Dutch)	239
(Colombian)	217
(Brazilian)	188
(Polish)	155
(Danish)	153
(Nationality unknown)	151
(Argentine)	144
(Austrian)	143
(Israeli)	122

We can use the following query to figure out the credit lines used for the artworks:

SELECT CreditLine, COUNT(CreditLine) AS COUNT FROM Artworks GROUP BY CreditLine ORDER BY COUNT DESC;

Mies van der Rohe Archive, gift of the architect	15472	Given anonymously	1405
The Louis E. Stern Collection	11416	Gift of Peter J. Cohen	1341
Gift of the artist	10777	Gift of the designer	1322
Purchase	8417	Gift of the manufacturer	1229
The Gilbert and Lila Silverman Fluxus Collection Gift	5409	Monroe Wheeler Fund	1114
Abbott-Levy Collection. Acquired through the generosity of Shirley C. Burden, and Family of Man Fund	4910	Committee on Architecture and Design Funds	1004
Gift of Kleiner, Bell & Co.	2732	Inter-American Fund	999
		Gift of Mr. and Mrs. Ralph F. Colin	952
The Judith Rothschild Foundation Contemporary Drawings Collection Gift	2459	Abby Aldrich Rockefeller Fund	937
		The Family of Man Fund	916
Gift of Jack Shear	1979	The Frank Lloyd Wright Foundation Archives (The Museum of Modern Art | Avery Architectural & Fine Arts Library, Columbia University, New York)	842
Gift of Abby Aldrich Rockefeller	1890		
Fund for the Twenty-First Century	1716		
Gift of The Judith Rothschild Foundation	1686	Jan Tschichold Collection, Gift of Philip Johnson	840
NULL	1545	Gift of the architect	834
Anonymous gift	1462	Lilly Reich Collection, Mies van der Rohe Archive	821
John B. Turner Fund	1439	Committee on Prints and Illustrated Books Fund	693

The **Mies van der Rohe Archive** and **The Louis E. Stern Collection** are the most significant sources of artworks in the collection, with over **15,000** and **11,000** pieces, respectively.

Gifts from artists, collectors, and foundations are a major source of acquisitions, highlighting the importance of donations in building the collection. The presence of multiple funds and archives also suggests a **diverse range of acquisition methods** and strong support from the art community.

Artists Table

Write a query of your choice and describe what the query tells you about this dataset.

I used the following query:

SELECT DisplayName, WikiQID, ULAN
FROM Artists
WHERE WikiQID!="NULL" AND ULAN!="NULL";

To identify artists who have both a **WikiQID** and **ULAN** entry, indicating they are well-documented.

We can use this query:

SELECT DisplayName, BeginDate, EndDate
FROM Artists
WHERE BeginDate!=0 AND BeginDate < 1900 AND (EndDate = 0 OR EndDate="NULL");

To finding artists with missing death dates who were born a long time ago.