PROJECT FOR SQL MODULE

ART GALLERY COMPETITION MANAGEMENT

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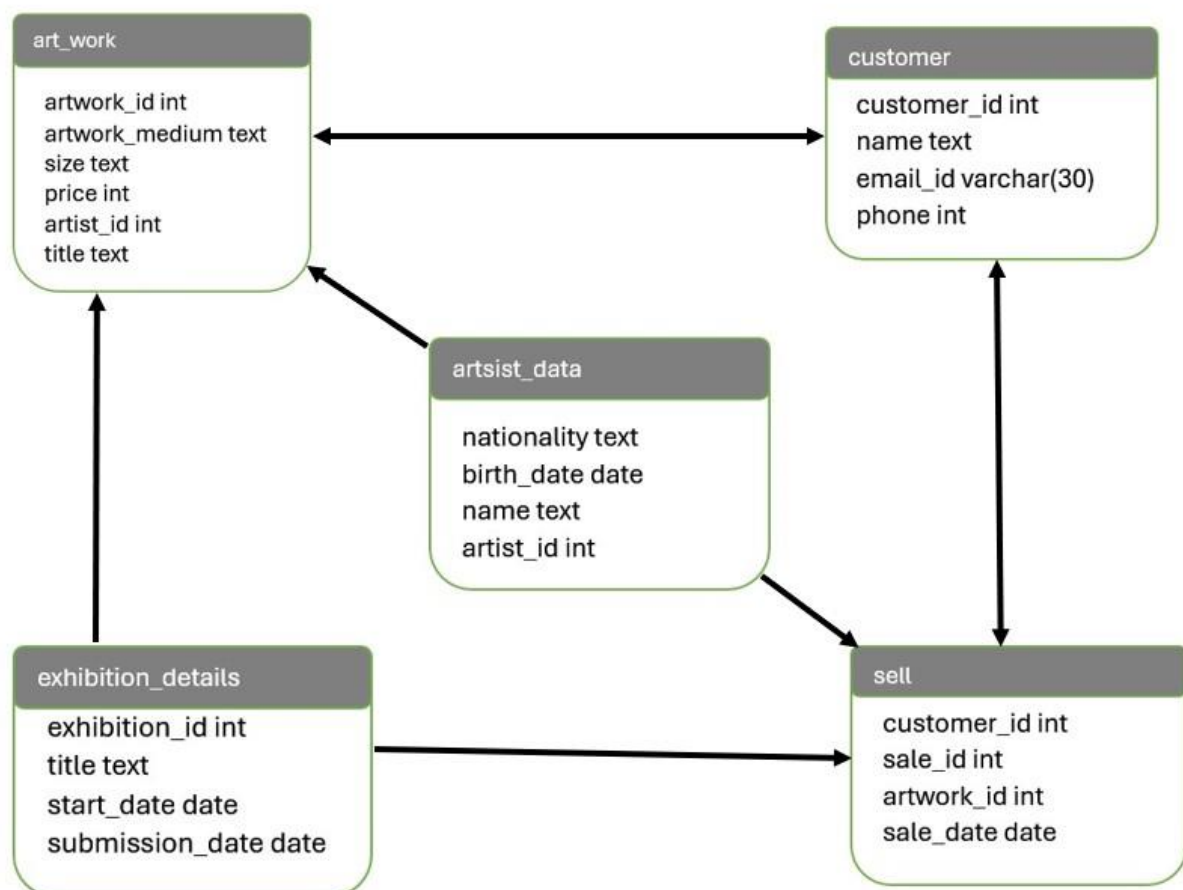**Date of submission** = 27-07-2024

Project aims:

- **Artist Commission Management:** Calculate and track artist commissions on artwork sales.
- **Exhibition Scheduling:** Schedule and manage exhibitions, including booking dates and artwork selection.
- **Artwork Conservation Management:** Track and manage artwork conservation and restoration activities.
- **Marketing and Promotion:** Support marketing and promotional activities, including email campaigns and social media integration.
- **Financial Management:** Integrate with financial systems to manage artwork sales, commissions, and expenses.
- **Artist Management:** Store and manage information about artists, including their personal details, artworks, and exhibitions.
- **Artwork Management:** Store and manage information about artworks, including their title, medium, size, price, and artist.
- **Exhibition Management:** Store and manage information about exhibitions, including their title, start and end dates, and participating artworks.
- **Customer Management:** Store and manage information about customers, including their personal details and artwork purchases.

Project objective:

The objective of the Art Gallery Management Database project is to design and implement a comprehensive database system that efficiently manages and stores information related to the art gallery's operations, including artist and artwork details, exhibitions, customer interactions, sales, and conservation activities. The system aims to streamline gallery operations, improve data accuracy and accessibility, enhance customer engagement, and support business growth through data-driven insights and reporting. By achieving this objective, the project will provide a robust and scalable solution for the art gallery to manage its diverse activities, make informed decisions, and maintain its competitive edge in the art industry.

ER diagram of the project:

ER diagram description:

Entities:

- Artist (Artist_ID, Name, Birthdate, Nationality)
- Artwork (Artwork_ID, Title, Medium, Size, Price, Artist_ID)
- Exhibition (Exhibition_ID, Title, Start_Date, End_Date)
- Customer (Customer_ID, Name, Email, Phone)
- Sale (Sale_ID, Artwork_ID, Customer_ID, Sale_Date, Price)

Relationships:

- An artist can create many artworks (one-to-many).
- An artwork is created by one artist (many-to-one).
- An exhibition can feature many artworks (one-to-many).
- An artwork can be part of many exhibitions (many-to-many).
- A customer can purchase many artworks (one-to-many).
- A sale is associated with one artwork and one customer (many-to-one).

Table description:

1) art_work

Field	Type	Null	Key	Default	Extra
artwork_id	Int	Yes	Primary key	Null	
artwork_medium	Text	Yes		Null	
size	Text	Yes		Null	
price	Int	Yes		Null	
artist_id	Int	Yes	Primary key	Null	
Title	Varchar(100)	yes		Null	

2) artsist_data

Field	Type	Null	Key	Default	Extra
nationality	text	Yes		Null	
birth_date	date	Yes		Null	
name	text	Yes		Null	
artist_id	int	Yes		null	

3) customer:

Field	type	Null	Key	Default	Extra
customer_id	int	Yes	Primary key	Null	
name	text	Yes		Null	
email_id	varchar(50)	Yes		Null	
Phone	Int	Yes		Null	

4) exhibition_details

Field	Type	Null	Key	Default	Extra
Exhibition_id	Int	Yes	Primary key	Null	
title	Text	Yes		Null	
Start_date	Date	Yes		Null	
Submission_date	Date	Yes		Null	

5) sell

Field	Type	Null	Key	Default	Extra
customer_id	int	Yes		Null	
sale_id	int	Yes	Primary	Null	
artwork_id	int	Yes		Null	
sale_date	Date	Yes		Null	

Commands:

create database exhibition;

use exhibition;

create table art_work(
artwork_id int primary key,
artwork_medium text,
size text,
price int,
artist_id int primary key,
title text
);

insert into art_Work **values**
(2327, 'oil on canvas', "extra large", 224483, 180, 'Palette of Ages'),
(2956, 'water colour', 'medium', 119370,   964, 'Carved Whispers'),
(2656, 'history, 'small', 415840, 135, 'Frozen Moments'),
(2328, 'water colour', 'medium', 293659,   802', 'Tangled Threads'),
(2715, 'sculpture', 'medium', 40536, 557, 'Aqua Serenade'),
(2464, 'history', 'small', 356752, 34, 'Tangled Threads'),
(2584, 'oil on canvas', 'small', 122590, 607, 'Luminous Horizons'),
(2060, 'mixed media', 'large', 21684, 609, 'Eternal Brushstrokes'),
(2060, 'mixed media', 'small ', 272020, 662, 'Pixel Reverberations'),
(2210, 'photography', 'extra large', 40601, 381,   'Pixel Reverberations');

Select * from art_work;
Output:

Artwork_id	artwork_medium	size	price	artist_id	title
2327	oil on canvas	extra large	224483	180	Palette of Ages
2956	water colour	medium	119370	964	Carved Whispers
2656	history	small	415840	135	Frozen Moments
2328	water colour	medium	293659	802	Tangled Threads
2715	sculpture	medium	40536	557	Aqua Serenade
2464	history	small	356752	34	Tangled Threads
2584	oil on canvas	small	122590	607	Luminous Horizons
2060	mixed media	large	21684	609	Eternal Brushstrokes
2060	mixed media	small	272020	662	Pixel Reverberations
2210	photography	extra large	40601	381	Pixel Reverberations

create table artsist_data(
Nationality text,
Birth_date date,
Name varchar(40),
Artist_id int
);

insert into artsist_data **values**
('Russia',   15-12-2009,   'Maggi Cohane',   196),
('Canada',   10-08-2012,   'Carmelita Slatten',   92),
('United States',   14-12-2012,   'Raul Lightowlers',   599),
('United States',   15-06-2013,   'Karie Legon', 167),
('Canada',   22-03-2011,   'Verena Cumbridge', 646),
('Russia',   26-04-1999,   'Harv Lorait',   353),
('Russia',   27-01-2004,   'Sunny Clewett',   836),
('Germany', 18-09-2006,   'Giacinta Earsman',   825),
('Russia',   06-09-2010,   'Koenraad Cavnor', 383),
('Russia',   16-05-2000,   'Arlette Seniour',   270);
select * from artsist_data;
output:

nationality	birth_date	name	artist_id
Russia	2009-12-15	Maggi Cohane	196
Canada	2012-08-10	Carmelita Slatten	92
United States	2012-12-14	Raul Lightowlers	599
United States	2013-06-15	Karie Legon	167
Canada	2011-03-22	Verena Cumbridge	646
Russia	1999-04-26	Harv Lorait	353
Russia	2004-01-27	Sunny Clewett	836
Germany	2006-09-18	Giacinta Earsman	825
Russia	2010-09-06	Koenraad Cavnor	383
Russia	2000-05-16	Arlette Seniour	270

```sql
create table customer(
Customer_id int primary key,
Name varchar(50),
Email_id varchar(50)'
Phone int
);
```

```sql
insert into customer values
(3747,    'Siobhan Morgon', 'smorgon0@desdev.cn'   867 543 0616),
(3341,    'Bobette Cree',  'bcree1@mtv.com'   663 815 3226),
(3428,    'Harmon Pahl', 'hpahl2@simplemachines.org'      825 678 0059),
(3506,    'Esme Horrigan', 'ehorrigan3@auda.org.au' 923 497 8518),
(3763,    'Celinda Sidaway', 'csidaway4@twitpic.com'      794 880 8433),
(3906,    'Beaufort Donat', 'bdonat5@statcounter.com'      816 383 5620),
(3785,    'Rex Chastanet', 'rchastanet6@ft.com'     766 123 7962),
(3742,    'Kerwin Braddick', 'kbraddick7@netvibes.com'     405 260 5685),
(3749,    'Livia Ossipenko', 'lossipenko8@vistaprint.com'   424 631 1004),
(3887,    'Augustine Lightwing',  'alightwing9@tuttocitta.it'  129 520 1144);
```

```sql
Select * from customer;
```

Output:

customer_id	name	email_id	phone
3747	Siobhan Morgon	smorgon0@desdev.cn	867 543 0616
3341	Bobette Cree	bcree1@mtv.com	663 815 3226
3428	Harmon Pahl	hpahl2@simplemachines.org	825 678 0059
3506	Esme Horrigan	ehorrigan3@auda.org.au	7447547494
3763	Celinda Sidaway	csidaway4@twitpic.com	794 880 8433
3906	Beaufort Donat	bdonat5@statcounter.com	816 383 5620
3785	Rex Chastanet	rchastanet6@ft.com	766 123 7962
3742	Kerwin Braddick	kbraddick7@netvibes.com	405 260 5685
3749	Livia Ossipenko	lossipenko8@vistaprint.com	424 631 1004
3887	Augustine Lightwing	alightwing9@tuttocitta.it	129 520 1144

```
create table exhibition_details(
Exhibition_id int primary key,
Title varchar(100),
Start_date date,
Submission_date date
);

insert into exhibition_details values
(1020,     'Palette of Ages',       06-01-2024,  08-01-2024),
(1470,     'Carved Whispers',       03-01-2024,  27-01-2024),
(1158,     'Frozen Moments',        03-01-2024,  13-01-2024),
(1535,     'Tangled Threads',       07-01-2024,  02-01-2024),
(1208,     'Aqua Serenade',         07-01-2024,  06-01-2024),
(1093,     'Tangled Threads',       09-01-2024,  06-01-2024),
(1625,     'Luminous Horizons',     05-01-2024,  12-01-2024),
(1863,     'Eternal Brushstrokes',  05-01-2024,  12-01-2024),
(1537,     'Pixel Reverberations',  05-01-2024,  09-01-2024),
(1714,     'Pixel Reverberations',  07-01-2024,  14-01-2024);

Select * from exhibition_details;
```

Output:

exhibitiob_id	title	start_date	submission_date
1020	Palette of Ages	2024-01-06	2024-01-08
1470	Carved Whispers	2024-01-03	2024-01-27
1158	Frozen Moments	2024-01-03	2024-01-13
1535	Tangled Threads	2024-01-07	2024-01-02
1208	Aqua Serenade	2024-01-07	2024-01-06
1093	Tangled Threads	2024-01-09	2024-01-06
1625	Luminous Horizons	2024-01-05	2024-01-12
1863	Eternal Brushstrokes	2024-01-05	2024-01-12
1537	Pixel Reverberations	2024-01-05	2024-01-09
1714	Pixel Reverberations	2024-01-07	2024-01-14

create table sell(
Customer_id int ,
Sale_id int primary key,
Artwork_id int,
Sale_date date,
);

insert into sell **values**
(3496,   4196,   2431, 18-01-2024),
(3877,   4190,   2566, 27-01-2024),
(3933,   4991,   2902, 20-01-2024),
(3212,   4018,   2157, 04-01-2024),
(3817,   4286,   2949, 10-01-2024),
(3303,   4429,   2878, 19-01-2024),
(3317,   4273,   2512, 20-01-2024),
(3724,   4436,   2748, 29-01-2024),
(3325,   4634,   2669, 23-01-2024),
(3246,   4352,   2712, 19-01-2024);

Select * from sell;

Output:

customer_id	sale_id	artwork_id	sale_date	city
3496	4196	2431	2024-01-18	new york
3877	4190	2566	2024-01-27	new york
3933	4991	2902	2024-01-20	new york
3212	4018	2157	2024-01-04	new york
3817	4286	2949	2024-01-10	new york
3303	4429	2878	2024-01-19	new york
3317	4273	2512	2024-01-20	new york
3724	4436	2748	2024-01-29	new york
3325	4634	2669	2024-01-23	new york
3246	4352	2712	2024-01-19	new york

JOIN QUERIES:

1) what is the nationality of the artist having the ID 167

select nationality, name from art_work A inner join artsist_data D on A.artist_iD = D.artist_id where A.artist_id = 167;

output:

nationality	name
United States	Karie Legon
United States	Karie Legon
United States	Karie Legon

2) art having the artwork_id 2157 was get by which customer

select name, customer_id, email_id, phone from customer inner join sell on customer.customer_id = sell.customer_id where sell.artwork_id = 2157;

output:

name	email_id	phone
Hersh Syder	hsyderf@list-manage.com	708 322 0594
Cordelie Grandin	cgrandinjd@google.es	486 993 9337

3) customer name mail phone having sale id using join

select sale_id , email_id, phone, name from customer join sell on customer.customer_id = sell.customer_id;
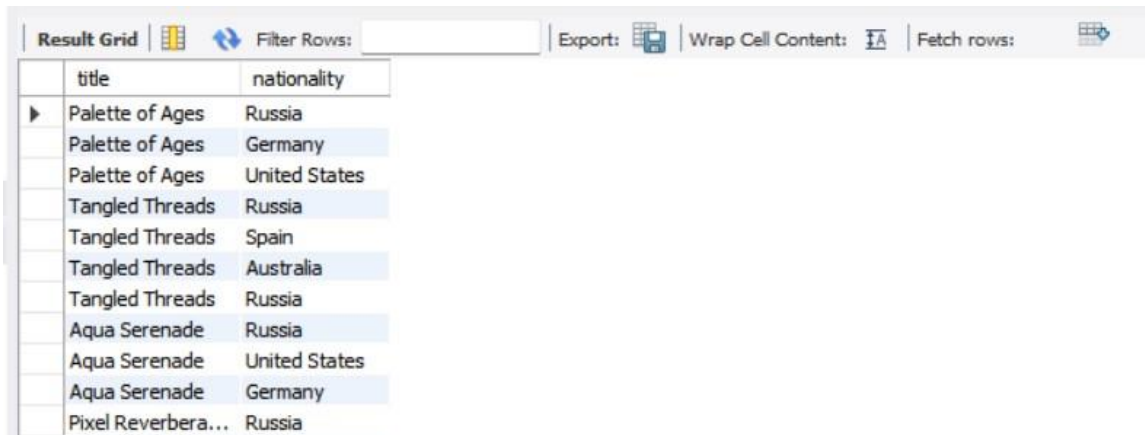
output:

sale_id	email_id	phone	name
4190	fnylesi9@irs.gov	266 669 2417	Florie Nyles
4991	mcuschierif7@zimbio.com	462 117 9595	Mord Cuschieri
4018	cgrandinjd@google.es	486 993 9337	Cordelie Grandin
4018	hsyderf@list-manage.com	708 322 0594	Hersh Syder
4286	tdagnanlb@omniture.com	943 954 7510	Thedrick Dagnan
4286	istacydt@furl.net	113 652 8280	Isobel Stacy
4286	glourens2j@edublogs.org	155 533 5306	Goldarina Lourens
4429	lkytleyqm@loc.gov	456 912 5160	Leonidas Kytley
4273	pselwayqz@harvard.edu	799 564 8390	Pammie Selway
4436	ghaquinhq@earthlink.net	139 555 2053	Gisele Haquin
4634	jpeaseyl4@yolasite.com	303 548 1934	Jameson Peasey

4) title of the project and their nationality
select title , nationality from art_work A join artsist_data D on A.artist_id = D.artist_id;

output:

title	nationality
Palette of Ages	Russia
Palette of Ages	Germany
Palette of Ages	United States
Tangled Threads	Russia
Tangled Threads	Spain
Tangled Threads	Australia
Tangled Threads	Russia
Aqua Serenade	Russia
Aqua Serenade	United States
Aqua Serenade	Germany
Pixel Reverbera...	Russia

5) find average price of the artwork in the medium category
select avg(price) , nationality from art_work inner join artsist_data on art_work.artist_id = artsist_data.artist_id   where nationality = "Russia";
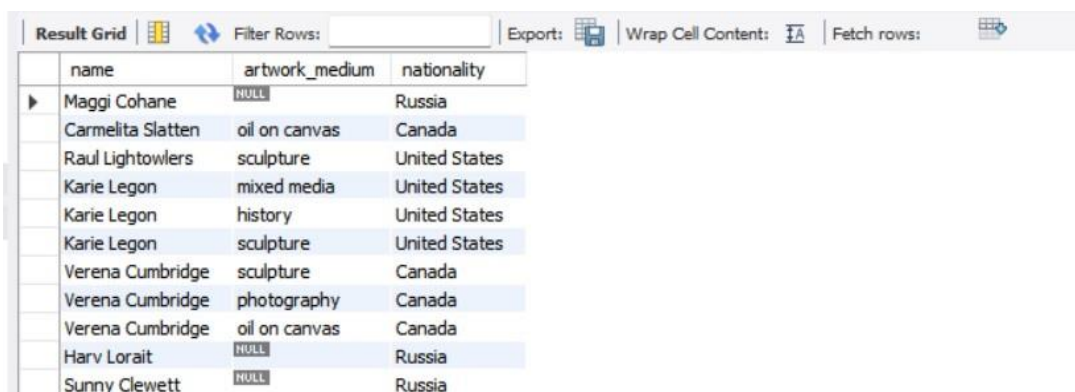
output:

avg(price)	nationality
260486.8460	Russia

6) right join use of the two table to show name with there medium and nationality
select name , artwork_medium , nationality from art_work A right join artsist_data AD on A.artist_id = AD.artist_id;
 output:

name	artwork_medium	nationality
Maggi Cohane	NULL	Russia
Carmelita Slatten	oil on canvas	Canada
Raul Lightowlers	sculpture	United States
Karie Legon	mixed media	United States
Karie Legon	history	United States
Karie Legon	sculpture	United States
Verena Cumbridge	sculpture	Canada
Verena Cumbridge	photography	Canada
Verena Cumbridge	oil on canvas	Canada
Harv Lorait	NULL	Russia
Sunny Clewett	NULL	Russia

7) joining 3 tables to extract name of the customer having spend more than 300000 on artwork
SELECT c.name, c.email_id FROM customer c JOIN sell s ON c.customer_id = s.customer_id JOIN art_work a ON s.artwork_id = a.artwork_id
WHERE a.price > 300000;

Output:

name	email_id
Rex Chastanet	rchastanet6@ft.com
Victoir Donaldson	vdonaldsonc@hhs.gov
Tobi MacSkeagan	tmacskeagand@spiegel.de
Tobi MacSkeagan	tmacskeagand@spiegel.de
Hersh Syder	hsyderf@list-manage.com
Hersh Syder	hsyderf@list-manage.com
Hersh Syder	hsyderf@list-manage.com
Margarette Seymark	mseymarkh@skype.com
Shari Farrier	sfarrierl@ftc.gov
Shari Farrier	sfarrierl@ftc.gov
Chelsea Neubigin	cneubiginn@europa.eu

SUBQUERIE QUERIES:

1) 2nd highest price of the art_work
select max(price) from art_work;
select max(price) from art_work where price < (select max(price) from art_work);

output:

max(price)
499455

2) Retrieve the names of customers who have purchased artworks worth more than $10,000

select * from art_work where price > 10000;

select artwork_medium from art_work where price > any(select artist_id from art_work where price > 10000);

output:

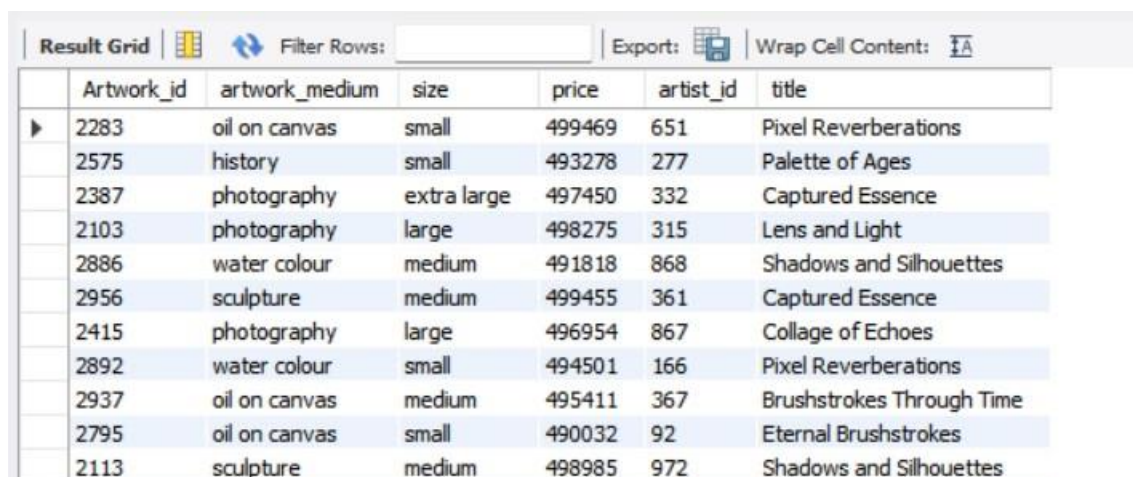| artwork_medium |
| --- |
| oil on canvas |
| water colour |
| history |
| water colour |
| sculpture |
| history |
| oil on canvas |
| mixed media |
| mixed media |
| photography |
| history |

3) data of the artist whos salary is greater than the one who are from united states

select nationality, price from artsist_data join art_work on artsist_data.artist_id = art_work.artist_id where nationality ="united states";

select * from art_work where price > (select max(price) from artsist_data join art_work on artsist_data.artist_id = art_work.artist_id where nationality ="united states");

output:

Artwork_id	artwork_medium	size	price	artist_id	title
2283	oil on canvas	small	499469	651	Pixel Reverberations
2575	history	small	493278	277	Palette of Ages
2387	photography	extra large	497450	332	Captured Essence
2103	photography	large	498275	315	Lens and Light
2886	water colour	medium	491818	868	Shadows and Silhouettes
2956	sculpture	medium	499455	361	Captured Essence
2415	photography	large	496954	867	Collage of Echoes
2892	water colour	small	494501	166	Pixel Reverberations
2937	oil on canvas	medium	495411	367	Brushstrokes Through Time
2795	oil on canvas	small	490032	92	Eternal Brushstrokes
2113	sculpture	medium	498985	972	Shadows and Silhouettes

4) show the data of the artwork who's price the greater than average price
select avg(price) from art_work;
select * from art_work where price > (select avg(price) from art_work);

output:

Artwork_id	artwork_medium	size	price	artist_id	title
2656	history	small	415840	135	Frozen Moments
2328	water colour	medium	293659	802	Tangled Threads
2464	history	small	356752	34	Tangled Threads
2060	mixed media	small	272020	662	Pixel Reverberations
2966	oil on canvas	small	322843	971	Canvas Chronicles
2166	oil on canvas	large	443512	378	Pixel Reverberations
2166	sculpture	large	368105	960	Canvas Chronicles
2264	history	medium	334073	95	Shadows and Silhouettes
2191	oil on canvas	medium	294047	645	Palette of Ages
2236	oil on canvas	large	256556	969	Carved Whispers
2934	photography	large	299697	979	Eternal Brushstrokes

5) having the name and email_id of the customer who spend more than 300000 on the art using joins and subqueries
SELECT c.name, c.email_id FROM customer c
WHERE c.customer_id IN (SELECT s.customer_id
  FROM sell s
  JOIN art_work a ON s.artwork_id = a.artwork_id
  WHERE a.price > 300000);

Output:

name	email_id
Rex Chastanet	rchastanet6@ft.com
Victoir Donaldson	vdonaldsonc@hhs.gov
Tobi MacSkeagan	tmacskeagand@spiegel.de
Hersh Syder	hsyderf@list-manage.com
Margarette Seymark	mseymarkh@skype.com
Shari Farrier	sfarrierl@ftc.gov
Chelsea Neubigin	cneubiginn@europa.eu
Nettle Hearne	nhearnes@topsy.com
Jerrylee Sherrocks	jsherrocks17@pinterest.com
Kelcey Kernaghan	kkernaghan19@toplist.cz
Moselle Girardoni	mgirardoni1c@jimdo.com

BASIC QUESTIONS:

1) Find the average price of artworks in a specific size
select avg(price) from art_work where size = "small";

output:

	avg(price)
▶	275804.2955

2) Find the total value of artworks sold by the artist "Verena Cumbridge"
select sum(price)   from art_work inner join artsist_data on art_work.artist_id = artsist_data.artist_id where artsist_data.name = "Verena Cumbridge";
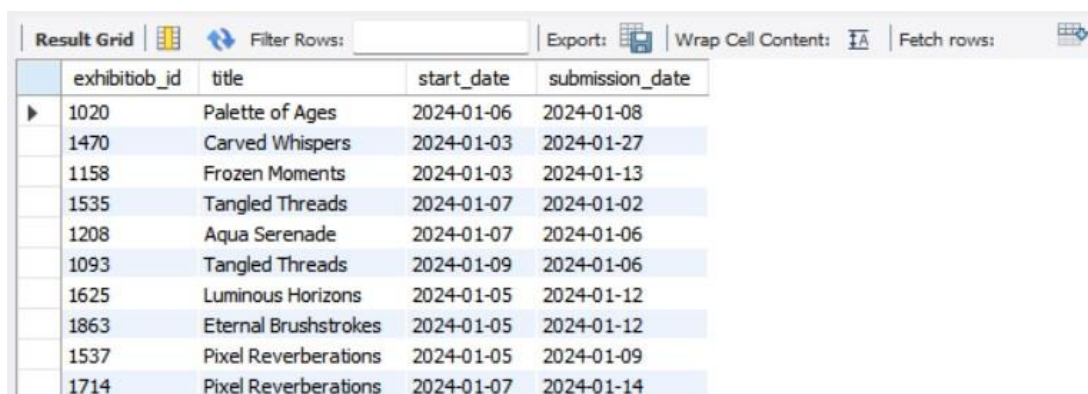
output:

	sum(price)
▶	1075423

3) dropping the column from the table
alter table exhibition_details drop column artist_id;

output:

	exhibitiob_id	title	start_date	submission_date
▶	1020	Palette of Ages	2024-01-06	2024-01-08
	1470	Carved Whispers	2024-01-03	2024-01-27
	1158	Frozen Moments	2024-01-03	2024-01-13
	1535	Tangled Threads	2024-01-07	2024-01-02
	1208	Aqua Serenade	2024-01-07	2024-01-06
	1093	Tangled Threads	2024-01-09	2024-01-06
	1625	Luminous Horizons	2024-01-05	2024-01-12
	1863	Eternal Brushstrokes	2024-01-05	2024-01-12
	1537	Pixel Reverberations	2024-01-05	2024-01-09
	1714	Pixel Reverberations	2024-01-07	2024-01-14

4) artwork having the top 5 price
select * from art_work limit 5;

output:

Artwork_id	artwork_medium	size	price	artist_id	title
2327	oil on canvas	extra large	224483	180	Palette of Ages
2956	water colour	medium	119370	964	Carved Whispers
2656	history	small	415840	135	Frozen Moments
2328	water colour	medium	293659	802	Tangled Threads
2715	sculpture	medium	40536	557	Aqua Serenade

5) count of artist by sizes available
select size, count(artist_id) from art_work group by size;

output:

size	count(artist_id)
extra large	254
medium	245
small	247
large	254

6) selecting particular value
select * from sell where artwork_id = 2157;
select * from sell;

output:

customer_id	sale_id	artwork_id	sale_date	city
3212	4018	2157	2024-01-04	new york

7) title of a project having size small
select size, title from art_work where size = "small";

output:

size	title
small	Frozen Moments
small	Tangled Threads
small	Luminous Horizons
small	Pixel Reverberations
small	Canvas Chronicles
small	Tangled Threads
small	Brushstrokes Through Time
small	Pixel Reverberations
small	Frozen Moments
small	Pixel Reverberations
small	Canvas Chronicles

8) extract month name from the table
select monthname(sale_date) from sell;

output:

monthname(sale_date)
January
January
January
January
January
January
January
January
January

9) change mobile number of the customer
update customer set phone = 7447547494 where customer_id = 3506;
select * from customer;
output:

customer_id	name	email_id	phone
3747	Siobhan Morgon	smorgon0@desdev.cn	867 543 0616
3341	Bobette Cree	bcree1@mtv.com	663 815 3226
3428	Harmon Pahl	hpahl2@simplemachines.org	825 678 0059
3506	Esme Horrigan	ehorrigan3@auda.org.au	7447547494
3763	Celinda Sidaway	csidaway4@twitpic.com	794 880 8433
3906	Beaufort Donat	bdonat5@statcounter.com	816 383 5620
3785	Rex Chastanet	rchastanet6@ft.com	766 123 7962

10) use of group by clause using joins getting sum of the price in the medium
select artwork_medium ,sum(price), count(price) from art_work inner join sell on art_work.artwork_id = sell.artwork_id group by artwork_medium ;

output:

artwork_medium	sum(price)	count(price)
oil on canvas	40507634	144
mixed media	42597820	162
photography	30250211	130
sculpture	45800380	165
history	50498686	200
water colour	42543021	163

11) use of logical operator AND
select * from art_work where price > 100000 AND size = "large";

output:

Artwork_id	artwork_medium	size	price	artist_id	title
2222	history	large	187114	226	Pixel Reverberations
2166	oil on canvas	large	443512	378	Pixel Reverberations
2166	sculpture	large	368105	960	Canvas Chronicles
2236	oil on canvas	large	256556	969	Carved Whispers
2934	photography	large	299697	979	Eternal Brushstrokes
2903	oil on canvas	large	142670	846	Brushstrokes Through Time
2873	photography	large	171032	439	Lens and Light
2643	history	large	271302	776	Collage of Echoes
2578	water colour	large	259915	56	Eternal Brushstrokes
2184	sculpture	large	383335	561	Aqua Serenade
2226	photography	large	352577	279	Luminous Horizons

12) convert the email ID of the particular customer to the uper case
select upper(name), customer_id from customer where customer_id = 3506;
select * from customer;

output:

upper(name)	customer_id
ESME HORRIGAN	3506
ANDREI TENPENNY	3506
CRYSTA HUCKLESBY	3506

13) what is the day gap between start date and the date sold
select datediff(submission_date,start_date) from exhibition_details;

output:

datediff(submission_date,start_date)
2
24
10
-5
-1
-3
7
7
4

14) title of the art work having id 1,2,3,4,5
select title, price from art_work where artist_id in (1,2,3,4,5);

output:

title	price
Palette of Ages	31754
Lens and Light	137144
Collage of Echoes	146678
Lens and Light	251567
Carved Whispers	424747

15) change the column name and add the city is new york
alter table sell add city varchar(30);
select * from sell;
update sell set city = "new york";

output:

customer_id	sale_id	artwork_id	sale_date	city
3496	4196	2431	2024-01-18	new york
3877	4190	2566	2024-01-27	new york
3933	4991	2902	2024-01-20	new york
3212	4018	2157	2024-01-04	new york
3817	4286	2949	2024-01-10	new york
3303	4429	2878	2024-01-19	new york
3317	4273	2512	2024-01-20	new york
3724	4436	2748	2024-01-29	new york
3325	4634	2669	2024-01-23	new york

CONCLUSION:

the Art Gallery Management Database project has successfully designed and implemented a comprehensive database system that effectively manages and stores information related to the art gallery's operations. The system has achieved its objectives by providing a user-friendly interface, improving data accuracy and accessibility, enhancing customer engagement, and supporting business growth through data-driven insights and reporting. With its robust and scalable design, the system is well-positioned to support the art gallery's future growth and expansion. The project demonstrates the importance of effective database management in the art industry, and its successful implementation will serve as a valuable resource for the gallery's continued success.