

DBMS PROJECT

**ART MUSEUM AND
SHOWROOM
MANAGEMENT SYSTEM**

Made By :

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ABSTRACT

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The Art Museum and Showroom Database Management System simplifies art gallery operations by efficiently managing user and gallery databases. Using SQL, the system makes it easy to retrieve, insert, update, and delete data. It stores detailed information about artists, artworks, and customers, helping gallery administrators make informed decisions and manage inventory better. The project aims to make art galleries more efficient and organized, improving customer satisfaction and overall effectiveness.

OVERVIEW

- Introduction
- Problem
- Objectives
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- Implementation
- Result
- Thank You

INTRODUCTION

Our project focuses on developing an Art Museum and Showroom Database Management System. This system aims to streamline the management of art galleries by efficiently organizing and storing information related to artists, artworks, exhibitions, and customers. By centralizing data management, our system enhances the efficiency of gallery operations, simplifies order management



PROBLEM STATEMENT

We seek to provide gallery administrators with a cohesive platform for managing gallery operations, improving customer satisfaction, and fostering a more organized and efficient art gallery environment.

First Problem

Art galleries often struggle with manual and disjointed data management processes, leading to inefficiencies in organizing exhibitions.

Second Problem

Existing methods of data management in art galleries lack cohesion and often result in errors.

OBJECTIVES

● Objective I

To design and implement a robust Art Museum and Showroom Database Management System that centralizes the management of artist, artwork, exhibition, and customer data to streamline gallery operations.

● Objective II

To enhance the efficiency and organization of art galleries by providing gallery administrators with a comprehensive platform for managing exhibitions, tracking artwork sales, and maintaining customer records

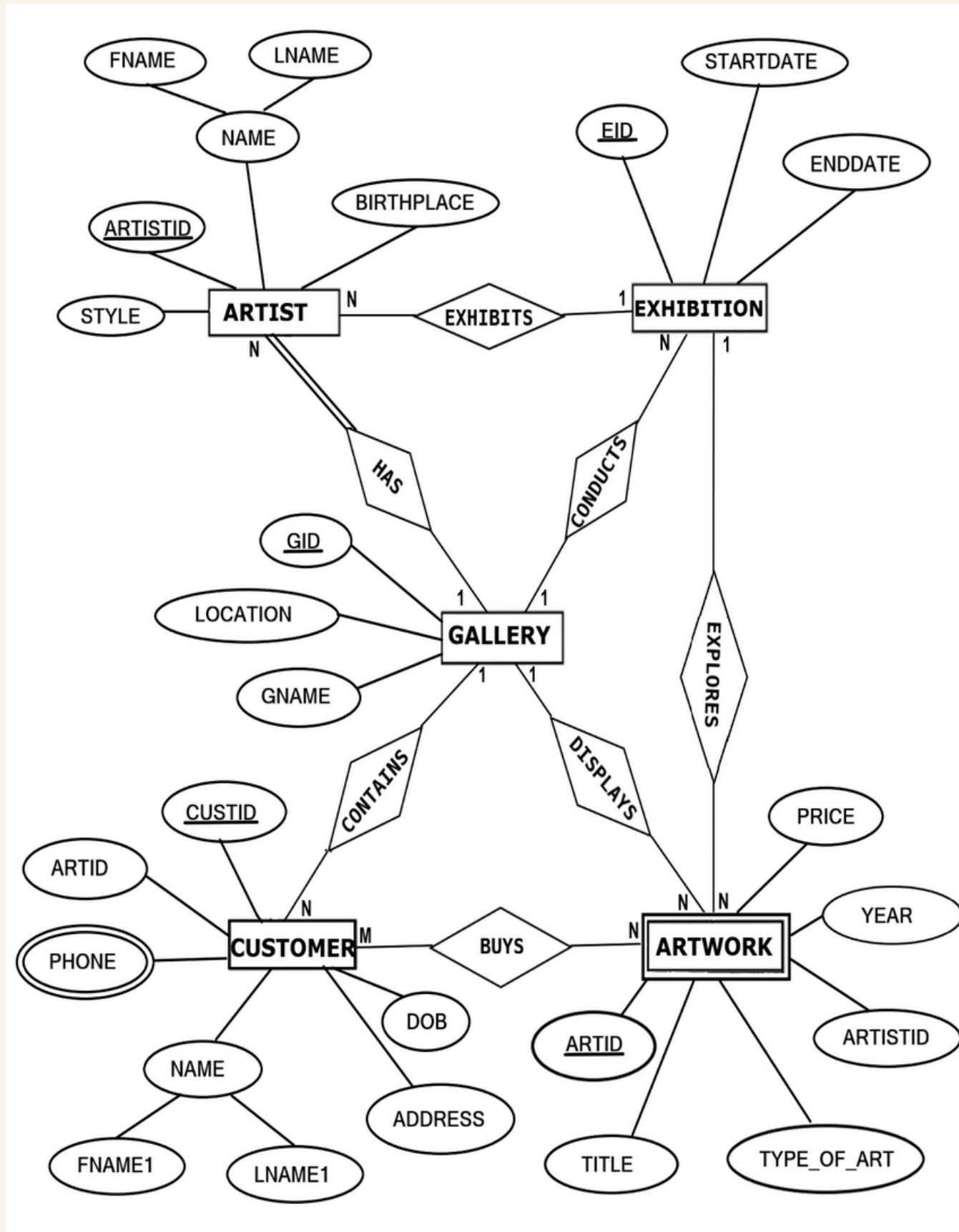
METHODOLOGY

Database Design

We start by designing the database schema using an Entity-Relationship (ER) model. This involves identifying the entities (such as artists, artworks, exhibitions, and customers) and their relationships, attributes, and constraints.

Database Creation

Once the database design is finalized, we create the database tables using Structured Query Language (SQL). Each table corresponds to an entity in the ER model, and we define the structure, data types, and constraints for each table.



IMPLEMENTATION

● Phase 1

- Design the database schema using an Entity-Relationship (ER) model.
- Identify entities such as artists, artworks and customers.

● Phase 2

- Create database tables based on the ER model using SQL.
- Define the structure, data types, and constraints for each table.

● Phase 3

- Populate the database tables with sample data using SQL INSERT.
- Include a variety of data to simulate real-world scenarios.

● Phase 4

Implement queries for various operations, such as displaying artworks by artist, updating customer information, or deleting records.

```
mysql> SHOW DATABASES;  
+-----+  
| Database |  
+-----+  
| art_gallery |  
| information_schema |  
| mysql |  
| performance_schema |  
| sys |  
+-----+  
5 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM artwork;
```

artid	title	year	type_of_art	price	eid	gid	artistid
AW12	Mona Lisa	1503	Painting	10,00,00,000	G123	NG123	AD11
AW34	Poppies	1873	Painting	1,50,00,000	H123	MM123	AD22
AW56	Guernica	1937	Painting	2,50,00,000	I123	TLM123	AD55
AW78	The Night Watch	1642	Painting	90,00,000	J123	BM123	AD88
AW90	Two Sisters	2010	Sculpture	2,00,000	K123	JG123	AD00
a111	ttt	2018	tyse	2000000000	E11	G11	ar1

```
6 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM customer;
```

custid	gid	artworkid	fname	lname	dob	address
AT2000	MM123	AW12	Akshay	Thakur	2000-04-16	New York
AR1998	TLM123	AW34	Ashutosh	Ranjan	1998-02-04	Paris
AD1998	BM123	AW56	Ayush	Dhar	1998-09-28	London
AM1994	JG123	AW78	Avanish	Mehta	1994-10-05	Mumbai
PM1996	NG123	AW56	Prashant	Mehta	1996-06-18	Washington
AR2022	MM126	AW56	Aashu	Demo	2022-05-10	Delhi
AR2025	MM126	AW78	Aashut	Demo0	2022-05-10	Delhi

```
7 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM exhibition;
```

eid	gid	startdate	enddate
H123	BM123	2018-12-21	2019-01-05
I123	MM123	2019-01-25	2019-02-05
G123	NG123	2018-12-01	2018-12-15
J123	TLM123	2018-12-15	2019-01-15
K123	JG123	2019-03-09	2019-03-27

```
5 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM gallery;
```

gid	gname	location
MM126	MY GALLERY	Patna
s123	ASHUTOSH	patna
NG123	NATIONAL GALLERY	Washington
BM123	BRITISH MUSEUM	London
JG123	JAHANGIR GALLERY	Mumbai
TLM123	THE LOUVRE MUSEUM	Paris
MM123	METROPOLITAN MUSEUM	New York

```
7 rows in set (0.01 sec)
```



```
Command Prompt - mysql -u X + v

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> USE art_gallery;
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_art_gallery |
+-----+
| artist                |
| artwork               |
| contacts              |
| customer              |
| exhibition            |
| gallery               |
+-----+
6 rows in set (0.00 sec)

mysql> SELECT * FROM artist;
+-----+-----+-----+-----+-----+-----+-----+-----+
| artistid | gid   | custid | eid  | fname1 | lname1 | birthplace | style          |
+-----+-----+-----+-----+-----+-----+-----+-----+
| ART1     | MM123 | AT2000 | AD22 | Georgia | O Keeffe | USA        | Oil on Canvas |
| ART2     | TLM123 | AR1998 | AD55 | Pablo   | Picasso  | Spain      | Analytic Cubism |
| ART3     | BM123 | AD1998 | AD88 | Rembrandt | van Rijn | Netherlands | Oil Painting |
| ART4     | JG123 | AM1994 | AD00 | Theodore | Chasseriau | France     | Oil Painting |
| ART5     | NG123 | PM1996 | AD11 | Leonardo | da Vinci | Italy      | High Renaissance |
| ART7     | MM126 | AR2022 | H123 | Mind    | Hunter   | Kathmandu | Oil Painting |
+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> |
```

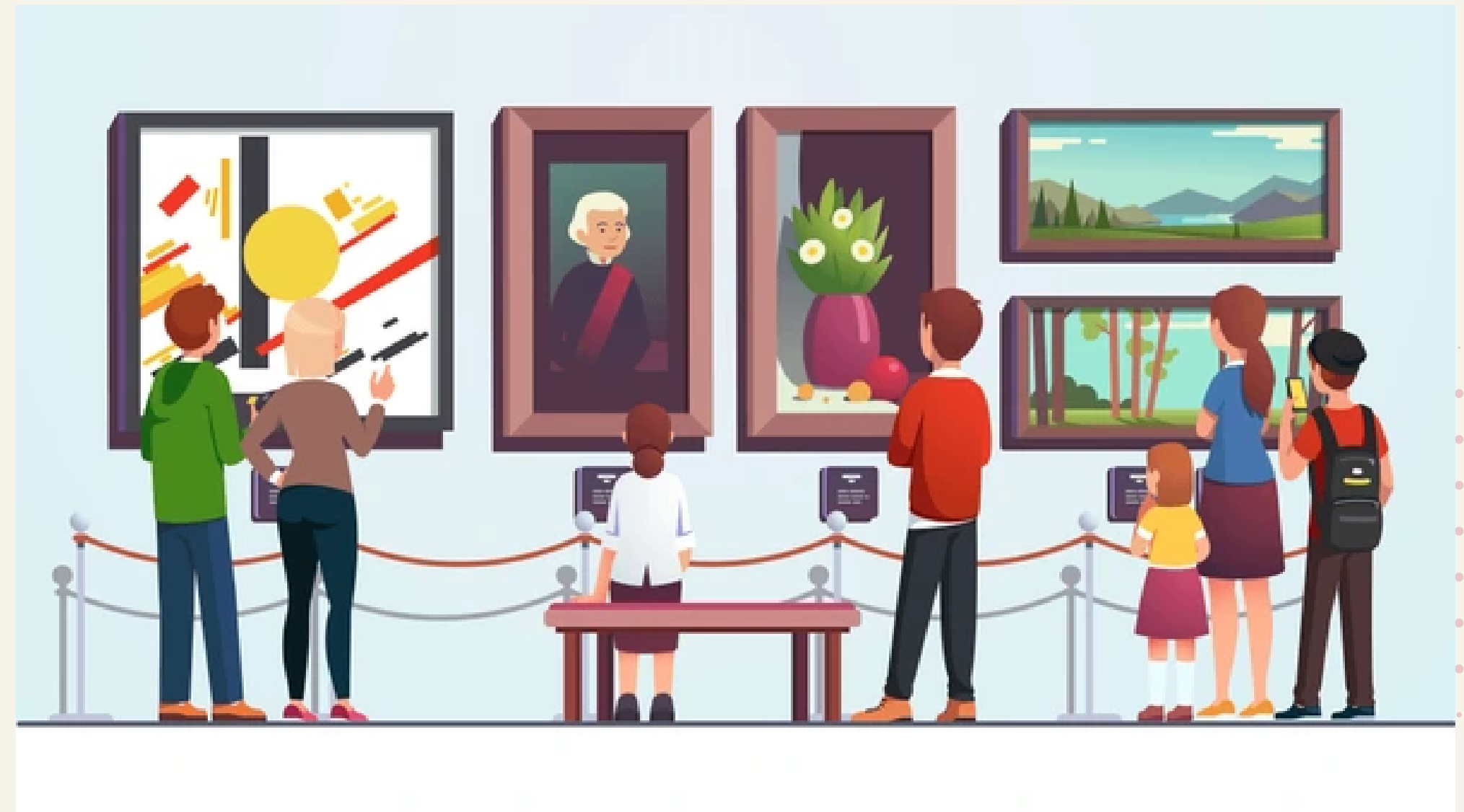
42°C Mostly sunny

Search

ENG US 17:00 25/05/2024

RESULT

The Art Museum and Showroom Database Management System has streamlined gallery operations, enhancing data organization and facilitating smoother management of exhibitions, artworks, and customer interactions.



The background features three vertical stripes on the left side: a wide light red stripe, a medium blue stripe, and a narrow light beige stripe. On the right side, there are two rectangular areas filled with a grid of small, light red dots. The text 'THANK YOU' is centered in a large, bold, black sans-serif font.

THANK YOU

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SCAN TO VIEW THE ENTIRE PROJECT:

