## VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI-590018



# "A MINI PROJECT REPORT" (Subject Code:21CSL55) ON "Art Gallery Management"

Submitted in partial fulfillment for the requirements for the Award of Degree of

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#### **CERTIFICATE**

This is to certify that the **Project Work** entitled "Art Gallery Management" is a bonafied work carried out by Pritish Ali bearing USN 1EP21CS076, Rupam Bhattacharyya bearing USN 1EP21CS089, Naga Sai Manoj bearing USN 1EP21CS090, Sanoop Sajan bearing USN 1EP21CS095 in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering under Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all the corrections/suggestions indicated in the Internal Assessment have been incorporated in the report and submitted in the department library. This project report has been approved as it satisfies the academic requirements in respect of Mini Project Work prescribed for the award of the said degree.

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1.

2.

ART GALLERY DATABASE

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#### **ABSTRACT**

The main aim of the project is the management of the database of ART GALLERY.

This project is insight into the design and implementation of a Art Gallery Management. This is done by creating a database of the available details in Art Gallery. The primary aim of this Art Gallery Management System is to improve accuracy and enhance safety and efficiency of tracking and keeping details of art and paintings in the art gallery. I have developed this software for ensuring effective policing by providing statistics of the Members.

The MYSQL database is used as a platform along with PHP and WAMP Server support. Application and the GUI are developed in HTML5, CSS3 using PHP and WAMP Server.

Overall this Art Gallery Management System is used to manage most art-related activities like exhibitions, gallery management, art stocks etc. in the gallery.

#### ART GALLERY DATABASE

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## INTRODUCTION

## 1.1 INTRODUCTION TO SQL

SQL which is an abbreviation for **Structured Query Language** is a language to request data from a database, to add, update, or remove data within a database, or to manipulate the metadata of the database.

Sometimes SQL is characterized as *non-procedural* because procedural languages generally require the details of the operations to be specified, such as opening and closing tables, loading and searching indexes, or flushing buffers and writing data to file systems. Therefore, SQL is designed at a higher conceptual level of operation than procedural languages.

Commonly used statements are grouped into the following categories

#### **Data Query Language (DQL)**

SELECT-Used to retrieve certain records from one or more tables.

#### **Data Manipulation Language (DML)**

INSERT - Used to create a record

UPDATE - Used to change certain records.

DELETE - Used to delete certain records.

#### **Data Definition Language (DDL)**

CREATE - Used to create a new table, a view of a table, or other object in database.

ALTER - Used to modify an existing database object, such as a table.

DROP - Used to delete an entire table, a view of a table or other object in the database.

#### **Data Control Language (DCL)**

GRANT - Used to give a privilege to someone

REVOKE - Used to take back privileges granted to someone.

#### 1.2 INTRODUCTION TO FRONT END SOFTWARE

The "front end languages" live in the browser. After you type in an address in the address bar at the top and hit Enter, your browser will receive an at least an HTML file from the web server.

Each of these languages performs a separate but very important function but the work harmoniously together to determine how the web page is STRUCTURED(<u>HTML</u>), how it LOOKS(CSS), and how its FUNCTIONS (JavaScript).

Front end web development is NOT design (You won't be playing around in Photoshop or anything), but a *front-end developer* does apply the work of designers to the web page by translating their well-designed layouts into real code. The front-end developer stands between the designer on one end and the back-end developer on the other, translating the design into code and plugging the data from the back-end developer into the right spots.

**PHP** is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Development Team.

PHP code may be embedded into HTML or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server software combines the result of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and it can be used to implement stand-alone graphical applications.

The standard PHP interpreter, powered by the Zend Engine, is free to use software released under the PHP License. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as Common Gateway Interface(CGI) executable. PHP has been widely ported on web servers on almost every operating system and platform, free of charge.

## REQUIREMENTS SPECIFICATION

## 2.1 SOFTWARE REQUIREMENTS

Operating System : 64bit WINDOWS Operating System,

X64-based processor

Database : MYSQL

Scripting Language : HTML5, CSS3, PHP

Server : WAMP

## 2.2 HARDWARE REQUIREMENTS

Processor : Intel Celeron CPU N3060 @1.60GHz or Above

RAM : 4.00 GB or Above

Hard Disk : 1 TB

Compact Disk : CD-ROM, CD-R, CD-RW

Input device : Keyboard

## **OBJECTIVE OF THE PROJECT**

## The main objective of creating an Art Gallery database project is

- To manage the details of gallery, exhibition, artwork and artist. It manages all the sales and inventory in the gallery. The purpose of the project is to build and application program to reduce the manual work.
- To tracks all the details about the sales of the artwork, the customer that bought it, etc. It manages the information about the artwork. Provides an information and description of the artworks left, thereby increasing the efficiency of managing the gallery. The organisation can maintain a computerized record of the artwork present in the gallery.
- To helps in the utilization of the resources in an effective manner. It maintains a list of all the customers and the various artwork that they have bought and the money that have invested in each.
- To maintains the record of exhibitions and various sales made during it. The objective of
  developing such computerized system is to reduce the paper work and safe of time in art gallery
  database management, thereby increasing the efficiency and decreasing the work load.
- To develop such computerized system is to reduce the paper work and safe of time in art gallery database management, thereby increasing the efficiency and decreasing the work load.

#### **IMPLEMENTATION**

#### 4.1 ER DIAGRAM

- 1. An entity-relationship model (ER Model) describes inter-related things of interest in a specific domain of knowledge. An ER model is composed of entity types (which classify the things of interest) and specifies relationships that can exist between instances of those entity types.
- **2.** An entity may be defined as a thing capable of an independent existence that can be uniquely identified. An entity is an abstraction from the complexities of a domain.
- **3.** Attributes are drawn as ovals and are connected with a line to exactly one entity or relationship set.
- **4.** An entity relationship model, also called an entity-relationship (ER) diagram, is a graphical representation of entities and their relationships to each other, typically used in computing in regard to the organization of data within databases or information systems.
- **5.** Cardinality constraints are expressed as follows:
  - **a.** A double line indicates a participation constraint, totality or subjectivity: all entities in the entity set must participate in at least one relationship in the relationship set.
  - **b.** An arrow from entity set to relationship set indicates a key constraint, i.e. injectivity: each entity of the entity set can participate in at most one relationship in the relationship set.
  - **c.** A thick line indicates both, i.e. bijectivity: each entity in the entity set is involved in exactly one relationship.
  - **d.** An underlined name of an attribute indicates that it is a key: two different entities or relationships with this attribute always have different values for this attribute.

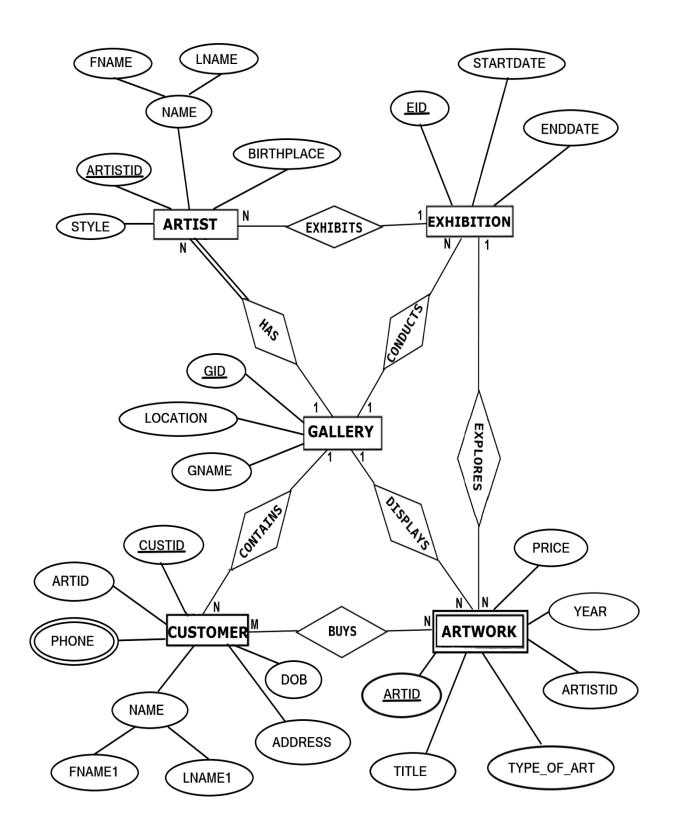


FIGURE 4.1: ER DIAGRAM of ART GALLERY DATABASE

## 4.2 MAPPING OF ER DIAGRAM TO RELATIONS

## **STEP 1: Mapping of Regular Entities**

For each regular entity type E in the ER schema, create relation R that includes all simple attributes of E.

#### **GALLERY**

GID G	NAME	LOCATION
-------	------	----------

#### **EXHIBITION**

<u>EID</u>	STARTDATE	ENDDATE
------------	-----------	---------

#### **ARTIST**

ARTISTID	FNAME	LNAME	BIRTHPLACE	STYLE

#### **CUSTOMER**

CUSTID	ARTID	FNAME1	LNAME1	ADDRESS	PHONE	DOB
	FK					

## **STEP 2: Mapping of Weak Entity Types**

#### **ARTWORK**

ARTID	ARTISTID	TITLE	TYPE_OF_ART	YEAR	PRICE

## STEP 3: Mapping of 1:1 Relationship

Identify the relation S that represents the participating entity type at the 1-side of the relationship type.

Include as foreign key in S the primary key of the relations T that represents the other entity type participating in R.

For each binary 1:1 relationship type R in ER schema, identify the relations S and T that correspond to the entity types participating in R if any.

There are **no** 1:1 relationship.

#### STEP 4: Mapping of 1:N Relationship

#### **EXHIBITION**

EID	STARTDATE	ENDDATE	GID
·		E.	K.

#### **ARTIST**

ARTISTID	FNAME	LNAME	BIRTHPLACE	STYLE	EID	GID	CUSTID
					FK	FK	FK

#### **CUSTOMER**

CUSTID	ARTID	FNAME1	LNAME1	ADDRESS	DOB	GID
	FK					FK

#### **ARTWORK**

ARTID	ARTISTID	TITLE	TYPE_OF_ART	YEAR	PRICE	EID	GID
	FK					FK	FK

#### **STEP 5: Mapping of M:N Relationship**

Create a new relation S to represent R.

Include as foreign key attributes in S the primary key of the relations that represents the participating entity types their combination will form the primary key of S.

Also, include any simple attributes of the M:N relationship type as attributes of S.

#### **STEP 6: Mapping of Multi-Valued Attributes**

For each multivalued attributes A, create a new relation R. This relation R will include an attribute corresponding to A, plus the primary key attribute K-as a foreign key in R-of the relation that represents the entity type of relationship type that has A as an attribute.

The Primary Key of R is the combination of A and K. If the multivalued attribute is composite, we include its simple components.

#### **CONTACTS**

CUSTID	PHONE

## **STEP 7: Mapping of N-Ary Relationship Types**

For each n-ary relationship type R, where n>2 create a new relationship S to represent R.  $\lambda$  include as foreign key attributes in S the primary keys of the relations that represent the participating entity types.

 $\lambda$  also includes any simple attributes of the n-ary relationship type (or simple components of composite attributes) as attributes of S.

There are **no** n-ary relationship types.

## 4.3 SCHEMA DIAGRAM

#### **GALLERY**

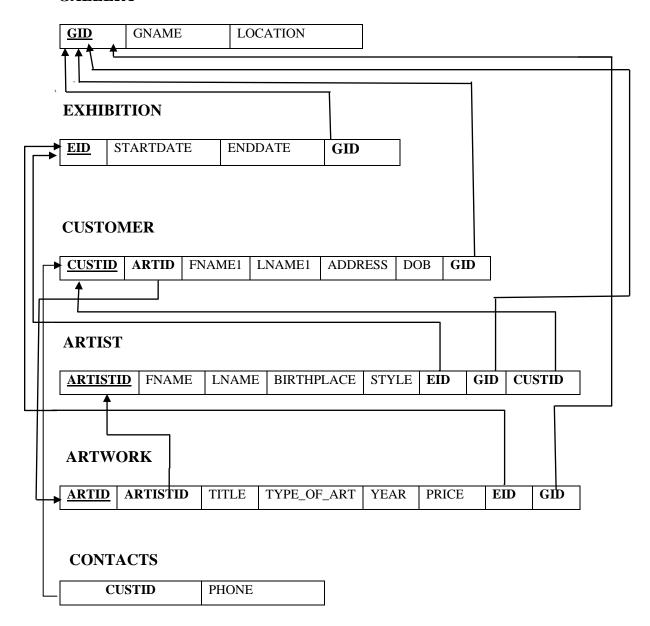


FIGURE 4.3: SCHEMA DIAGRAM

#### 4.3 NORMALIZE THE RELATIONS

Database normalization, or simply normalization, is the process of organizing the columns(attributes) and tables(relations) of a relational database to reduce data redundancy and improve data integrity. Normalization involves arranging attributes in relations based on dependencies between attributes.

#### 1. First Normal Form

As per First normal form, no two rows of data must contain repeating group of information. Each set of columns must have a unique value, such that multiple columns cannot be used to fetch the same row. Each table should be organized into rows, and each row should have a primary key that will distinguishes it as unique.

#### **Example:**

#### **GALLERY**

GID	GNAME	LOCATION

All the tables in the database are normalized to 1NF as all the attributes are atomic.

#### 2. Second Normal Form (2NF)

A table is in 2NF if it is in 1NF and if all non-key attributes are fully functionally dependent on all of the key.

#### **Example:**

#### **CUSTOMER**

<u>CUSTID</u>	ARTID	FNA	ME1	LNAM	E1	ADDRESS	DOB	GID
FD1								

#### FD1

CUSTID FNAME1	LNAME1	DOB
---------------	--------	-----

#### 3. Third Normal Form(3NF):

A table is in 3NF if it is in 2NF and if it has no transitive dependency, X->Y, Y->Z, X>Z

According to CODD's definition a relation schema R is in 3NF. It satisfies 2NF and no non-prime attribute of R is transitively dependent on the primary key. All tables of database satisfies upto 3NF.

## 4.5 CREATION OF TABLES

#### 1. CREATING GALLERY TABLE

CREATE TABLE GALLERY (GID VARCHAR(20) PRIMARY KEY, GNAME CHAR(20), LOCATION CHAR(20));

#### 2. CREATE EXHIBITION TABLE

CREATE TABLE EXHIBITION
(EID VARCHAR(20) PRIMARY KEY,
GID VARCHAR(20),
STARTDATE DATE,
ENDDATE DATE,
FOREIGN KEY(GID) REFERENCES GALLERY(GID) ON DELETE CASCADE);

Field			Default	
	varchar(20) varchar(20)		NULL NULL NULL NULL	

#### 3. CREATE ARTWORK TABLE

CREATE TABLE ARTWORK
(ARTID VARCHAR(20) PRIMARY KEY,
TITLE VARCHAR(20),
YEAR INT,
TYPE\_OF\_ART VARCHAR(20),
PRICE INT,
EID VARCHAR(20), GID VARCHAR(20),

FOREIGN KEY(EID) REFERENCES EXHIBITION(EID) ON DELETE CASCADE, FOREIGN KEY(GID) REFERENCES GALLERY(GID) ON DELETE CASCADE);

mysql> desc art	twork;	+	+	+	+
Field	Type	Null	Key	Default	Extra
artid	varchar(20)	NO NO	PRI	NULL	
title	varchar(20)	YES		NULL	
year	varchar(5)	YES		NULL	
type_of_art	varchar(20)	YES		NULL	
price	varchar(15)	YES		NULL	
eid	varchar(20)	YES	MUL	NULL	
gid	varchar(20)	YES	MUL	NULL	
artistid	varchar(20)	YES	MUL	NULL	
+	+	+	+	+	+
8 rows in set	(0.00 sec)				

#### 4. CREATE CUSTOMER TABLE

CREATE TABLE CUSTOMER (CUSTID VARCHAR(20) PRIMARY KEY, GID VARCHAR(20), ARTID VARCHAR(20),

FNAME1 CHAR(20),

LNAME1 CHAR(20),

DOB DATE,

ADDRESS CHAR(20),

FOREIGN KEY(GID) REFERENCES GALLERY(GID) ON DELETE CASCADE, FOREIGN KEY(ARTID) REFERENCES GALLERY(ARTID) ON DELETE CASCADE);

Field	Type	Null	Key	Default	Extra
custid	   varchar(20)	NO	PRI	   NULL	
gid	varchar(20)	YES	MUL	NULL	
artid	varchar(20)	YES	MUL	NULL	
fname	char(25)	YES		NULL	
lname	char(25)	YES		NULL	
dob	date	YES		NULL	
address	char(25)	YES		NULL	

#### 5. CREATE ARTIST TABLE

CREATE TABLE ARTIST (ARTISTID VARCHAR(20) PRIMARY KEY, GID VARCHAR(20), CUSTID VARCHAR(20), EID VARCHAR(20), FNAME CHAR(20), LNAME CHAR(20), BIRTHPLACE CHAR(20), STYLE CHAR(20),

FOREIGN KEY(GID) REFERENCES GALLERY(GID) ON DELETE CASCADE, FOREIGN KEY (CUSTID) REFERENCES CUSTOMER(CUSTID) ON DELETE CASCADE,

FOREIGN KEY(EID) REFERENCES EXHIBITION(EID) ON DELETE CASCADE);

ALTER TABLE ARTWORK ADD ARTISTID VARCHAR(20);

ALTER TABLE ARTWORK ADD FOREIGN KEY (ARTISTID) REFERENCES ARTIST(ARTISTID) ON DELETE CASCADE;

Field	Туре	Null	Key	Default	Extra
artistid	varchar(20)	NO NO	PRI	NULL	
gid	varchar(20)	YES	MUL	NULL	
custid	varchar(20)	YES	MUL	NULL	
eid	varchar(20)	YES	MUL	NULL	
fname1	char(25)	YES		NULL	
lname1	char(25)	YES		NULL	
birthplace	char(25)	YES		NULL	
style	char(25)	YES		NULL	

#### 6. CREATE CONTACTS TABLE

CREATE TABLE CONTACTS
(CUSTID VARCHAR(20),
PHONE VARCHAR(12),
FOREIGN KEY (CUSTID) REFERENCES CUSTOMER(CUSTID) ON DELETE
CASCADE);

#### 4.6 INSERTION OF TUPLES

#### 1. INSERTION OF GALLERY TABLE

INSERT INTO GALLERY VALUES('NG123','National Gallery', 'Washington'); INSERT INTO GALLERY VALUES('BM123','British Museum', 'London'); INSERT INTO GALLERY VALUES('JG123','Jahangir Gallery', 'Mumbai'); INSERT INTO GALLERY VALUES('TLM123','The Louvre Museum', 'Paris'); INSERT INTO GALLERY VALUES('MM123','Metropolitan Museum', 'New York');

#### 2. INSERTION OF EXHIBITION TABLE

INSERT INTO EXHIBITION VALUES('G123','NG123','2018-12-01','2018-12-15'); INSERT INTO EXHIBITION VALUES('H123','BM123','2018-12-21','2019-01-05'); INSERT INTO EXHIBITION VALUES('I123','MM123','2019-01-25','2019-02-05'); INSERT INTO EXHIBITION VALUES('J123','TLM123','2018-12-15','2019-01-15'); INSERT INTO EXHIBITION VALUES('K123','JG123','2019-03-09','2019-03-27');

```
nysql> select * from exhibition;
             startdate enddate
 eid gid
 H123 | BM123 | 2018-12-21 | 2019-01-05
       MM123
                2019-01-25 | 2019-02-05
 I123
                2018-12-01 | 2018-12-15
 G123
       NG123
                2018-12-15
        TLM123 |
 J123
                             2019-01-15
       JG123 | 2019-03-09 | 2019-03-27
rows in set (0.00 sec)
```

#### 3. INSERTION OF ARTWORK TABLE

INSERT INTO ARTWORK

VALUES('AW12','Mona Lisa','1503','Painting','10,00,00,000','G123','NG123','AD11'); INSERT INTO ARTWORK

VALUES('AW34','Poppies','1873','Painting','1,50,00,000','H123','MM123','AD22'); INSERT INTO ARTWORK

VALUES('AW56', 'Guernica', '1937', 'Painting', '2,50,00,000', 'I123', 'TLM123', 'AD55');

INSERT INTO ARTWORK

VALUES('AW78','The Night Watch','1642','Painting','90,00,000','J123','BM123','AD88'); INSERT INTO ARTWORK

VALUES('AW90', 'Two Sisters', '2010', 'Sculpture', '2,00,000', 'K123', 'JG123', 'AD00');

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

#### 4. INSERTION OF CUSTOMER TABLE

INSERT INTO CUSTOMER VALUES

('AT2000','MM123','AD22','Akshay','Thakur','2000-04-16','New York');

**INSERT INTO CUSTOMER** 

VALUES('AR1998', 'TLM123', 'AD55', 'Ashutosh', 'Ranjan', '1998-02-04', 'Paris');

INSERT INTO CUSTOMER

VALUES('AD1998', 'BM123', 'AD88', 'Ayush', 'Dhar', '1998-09-28', 'London');

INSERT INTO CUSTOMER

VALUES('AM1994','JG123','AD00','Avanish','Mehta','1994-10-05','Mumbai');

INSERT INTO CUSTOMER VALUES

('PM1996','NG123','AD11','Prashant','Mehta','1996-06-18','Washington');

custid	gid	artid	fname			address
AT2000	MM123	AD22			2000-04-16	
AR1998	TLM123	AD55	Ashutosh	Ranjan	1998-02-04	Paris
AD1998	BM123	AD88	Ayush	Dhar	1998-09-28	London
AM1994	JG123	AD00	Avanish	Mehta	1994-10-05	Mumbai
PM1996	NG123	AD11	Prashant	Mehta	1996-06-18	Washington

#### 5. INSERTION OF ARTIST TABLE

**INSERT INTO ARTIST** 

VALUES('ART1','MM123','AT2000','AD22','Georgia','O Keeffe','USA','Oil on Canvas'); INSERT INTO ARTIST

VALUES('ART2','TLM123','AR1998','AD55','Pablo','Picasso','Spain','Analytic Cubism'); INSERT INTO ARTIST VALUES

('ART3','BM123','AD1998','AD88','Rembrandt','van Rijn','Netherlands','Oil Painting');

**INSERT INTO ARTIST** 

VALUES('ART4','JG123','AM1994','AD00','Theodore','Chasseriau','France','Oil Painting'); INSERT INTO ARTIST

VALUES('ART5','NG123','PM1996','AD11','Leonardo','da Vinci','Italy','High Renaissance');

```
nysql> select * from artist;
 artistid | gid
                   custid eid
                                    fname1
                                                lname1
                                                            birthplace
           MM123
                    AT2000
                             AD22
                                    Georgia
                                                0 Keeffe
                                                             USA
                                                                           Oil on Canvas
                    AR1998
                             AD55
                                    Pablo
                                                Picasso
                                                             Spain
                                                                           Analytic Cubism
 ART2
           TLM123
                                                             Netherlands
 ART3
           BM123
                    AD1998
                             AD88
                                    Rembrandt
                                                van Rijn
                                                                           Oil Painting
 ART4
           JG123
                    AM1994
                             AD00
                                     Theodore
                                                Chasseriau
                                                             France
                                                                           Oil Painting
 ART5
                                                da Vinci
                                                             Italy
                                                                           High Renaissance
           NG123
                    PM1996
                             AD11
                                    Leonardo
rows in set (0.00 sec)
```

#### 6. INSERTION OF CONTACTS TABLE

```
INSERT INTO CONTACTS VALUES('AT2000', '9456805776'); INSERT INTO CONTACTS VALUES('AR1998', '8073271337'); INSERT INTO CONTACTS VALUES('AD1998', '9980904736'); INSERT INTO CONTACTS VALUES('AM1994', '7737564076'); INSERT INTO CONTACTS VALUES('PM1996', '8002391707');
```

```
mysql> select * from contacts;

+-----+

| CUSTID | PHONE |

+-----+

| AT2000 | 9456805776 |

| AR1998 | 8073271337 |

| AD1998 | 9980904736 |

| AM1994 | 7737564076 |

| PM1996 | 8002391707 |

+-----+

5 rows in set (0.00 sec)
```

#### 4.7 CREATION OF TRIGGERS

The trigger is made such that when a new record is inserted into a Gallery table, it automatically changes the lowercase name into uppercase in the backend.

## TRIGGER ON GALLERY TABLE TO CHANGING NAME TO UPPERCASE

**DELIMITER \$\$** 

CREATE TRIGGER UPPERCASE

**BEFORE INSERT on Gallery** 

FOR EACH ROW

**BEGIN** 

SET NEW.gname=UPPER(NEW.gname);

END\$\$

```
mysql> select * from Gallery;
 gid
                                location
        gname
 NG123
          NATIONAL GALLERY
                                Washington
 BM123
          BRITISH MUSEUM
                                London
 JG123
         JAHANGIR GALLERY
                                Mumbai
 TLM123 | THE LOUVRE MUSEUM
                                Paris
        METROPOLITAN MUSEUM
 MM123
                              New York
 rows in set (0.23 sec)
```

#### 4.8 CREATION OF STORED PROCEDURES

This stored procedure is used to find the age of the given customer using date of birth and current date.

#### STORED PROCEDURE ON CUSTOMER TABLE TO FIND AGE

**DELIMITER \$\$** 

CREATE PROCEDURE GetAge()

**BEGIN** 

SELECT \*, year(CURRENT\_DATE())-year(DOB) as age from CUSTOMER;

END\$\$

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE GetAge()
    -> BEGIN
    -> SELECT *, year(CURRENTDATE())-year(DOB) as age from CUSTOMER;
    -> END$$
Query OK, 0 rows affected (0.00 sec)
```

```
iysql> call GetAge();
                  artid fname
 custid | gid
                                       lname
                                              dob
                                                            address
                                                                         age
          MM123
                    AD22
                            Akshay
                                       Thakur
                                                2000-04-16
                                                             New York
                                                                             18
 AT2000
                                                1998-02-04
 AR1998
                    AD55
                            Ashutosh
                                       Ranjan
           TLM123
                                                             Paris
                                                                             20
 AD1998
           BM123
                    AD88
                            Ayush
                                       Dhar
                                                1998-09-28
                                                              London
                                                                             20
  AM1994
           JG123
                    AD00
                            Avanish
                                       Mehta
                                                1994-10-05
                                                             Mumbai
                                                                             24
                                                1996-06-18 | Washington
 PM1996
           NG123
                    AD11
                            Prashant
                                       Mehta
                                                                             22
 rows in set (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
```

## **RESULTS**

This section describes the screens of "Art Gallery Database". The snapshots are shown below for each module.

#### **SNAPSHOTS**

• This is the main page that shows all the operations which are present in Art Gallery Database.

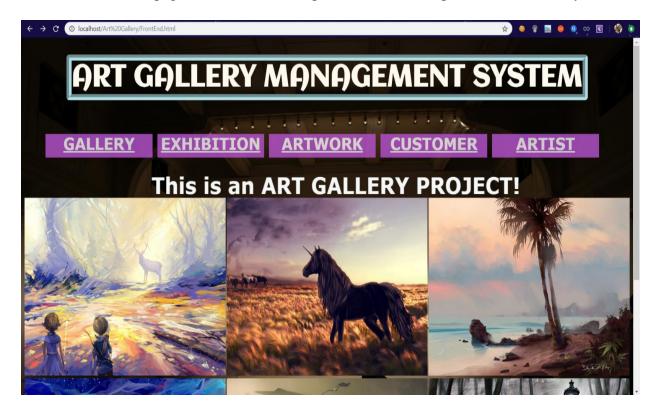


FIGURE 7.1 ART GALLERY DATABASE MAIN PAGE

• The selection page is the next displayed as soon as the table is selected in Main Page. Gallery table contains Insert, Search, Display and Delete tables where values can be inserted, deleted, etc.



#### FIGURE 7.2 GALLERY TABLE SELECTION PAGE

• This snapshot shows the insertion page of Gallery Table. This front end page supports the insertion of all the attributes in Gallery table like GID, GName and Location.



FIGURE 7.3: INSERTION PAGE OF GALLERY TABLE

This snapshot contains all the details of given GID by using Search method. Search table of Gallery
contains the values like GID, GName and Location where it is searched by GID which is a primary
key for this table.



FIGURE 7.4: SEARCH PAGE OF GALLERY TABLE

• This snapshots displays all the values entered in that table. Here, Gallery table is displayed on frontend page by using proper display query.

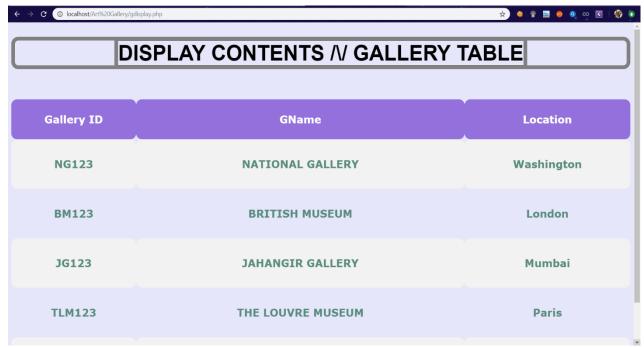


FIGURE 7.5: DISPLAY PAGE OF GALLERY TABLE

• This snapshot shows the working status of Delete Page of Gallery Table. In this page, GID is used as a parameter to delete certain record with all of their attributes in that rows. If the entered value is present in database then the value will be deleted.



FIGURE 7.6: DELETION PAGE OF GALLERY TABLE

• This snapshot shows the working status of Stored Procedure of Customer table. By using stored procedure, we're calculating the Age of Customer using Date of Birth as parameter.



FIGURE 7.7: STORED PROCEDURE PAGE OF CUSTOMER TABLE

## **CONCLUSION**

A database was created for a market that can use it for keeping track on art gallery Galleries are divided into many art galleries. Galleries have different names, locations, etc. Each gallery will have different exhibitions and each exhibition will have a start and end date. The galleries will have different artist displaying their artwork. The model can also be adapted to meet other purposes and thus be used for other projects. The database structure is quite simple, which makes it easy for also other programmers to understand it. In conclusion, a database is a far more efficient mechanism to store and organize data than spreadsheets it allows for a centralized facility that can easily be modified and quickly shared among multiple users. Having a web based front end removes the requirement of users having to understand and use a database directly, and allows users to connect from anywhere with an internet connection and a basic web browser. It also allows the possibility of queries to obtain information for various surveys. Due to the number of users reading and modifying student data in the department, it is an ideal use for such a system.

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