EXHIBITION GALLERY MANAGEMENT SYSTEM

Final Project for SQL

Moduleby

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The main objective of creating an EXHIBITION 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 managesthe 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
 ofdeveloping 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.



- 1. GALLERY
- 2. ARTIST_WORK
- 3. ARTIST
- 4. Customer
- 5. EXHIBITION
- 6. CONTACTS

How these tables/entities are related to each other is shown pictorially on next page throughER diagram, i.e., Entity Relationship Diagram.

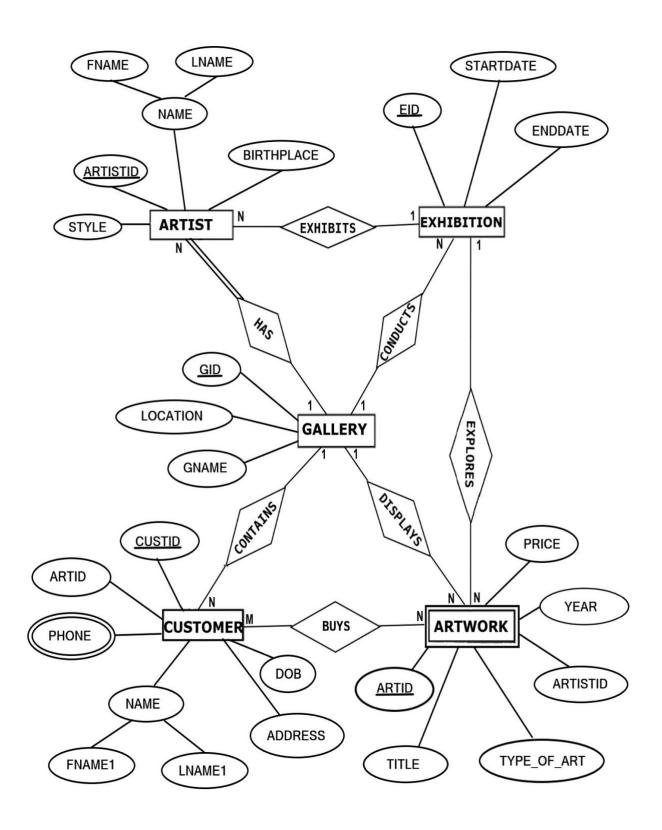
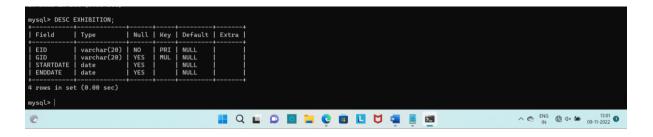


TABLE DESCRIPTION

1. GALLERY



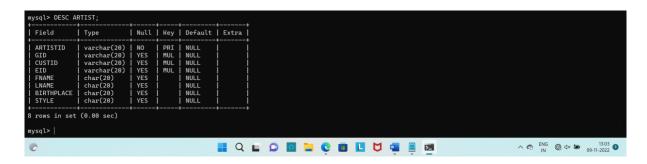
2. EXHIBITION



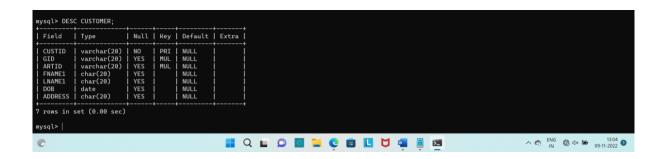
3. ART_WORK



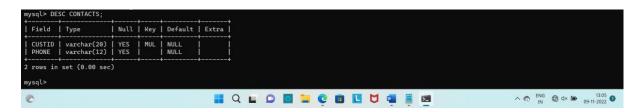
4. ARTIST



5. CUSTOMER



6. CONTACT



COMMANDS

DATABASE-

CREATE DATABASE EGMS; USE EGMS;

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);

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);

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),
constraint galid_fk FOREIGN KEY(GID) REFERENCES GALLERY(GID) ON DELETE CASCADE,
constraint artid_fk FOREIGN KEY(ARTID) REFERENCES artwork(ARTID) ON DELETE CASCADE);

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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
FOREIGN KEY(EID) REFERENCES EXHIBITION(EID) ON DELETE CASCADE);
*alter table artwork
FOREIGN KEY (ARTISTID) REFERENCES ARTIST(ARTISTID) ON DELETE
CASCADE);
6. CREATE CONTACTS TABLE
CREATE TABLE CONTACTS
(CUSTID VARCHAR(20),
PHONE VARCHAR(12),
FOREIGN KEY (CUSTID) REFERENCES CUSTOMER(CUSTID) ON DELETE
CASCADE):
```

RECORDS-

1. INSERTION OF GALLERY TABLE

INSERT INTO GALLERY VALUES('NG123','National Gallery', 'Jaipur');
INSERT INTO GALLERY VALUES('BM123','British Museum', 'Navi mumbai');
INSERT INTO GALLERY VALUES('JG123','Jahangir Gallery', 'Mumbai');
INSERT INTO GALLERY VALUES('TLM123','The Louvre Museum', 'pune');
INSERT INTO GALLERY VALUES('MM123','Metropolitan Museum', 'vashi');
INSERT INTO GALLERY VALUES('sm123','shivaji museum', 'pune');
INSERT INTO GALLERY VALUES('NC123','Nehru center', 'delhi');
INSERT INTO GALLERY VALUES('gm123','Gandhi museum', 'Mumbai');
INSERT INTO GALLERY VALUES('TWM123','The wax Museum', 'pune');
INSERT INTO GALLERY VALUES('cm123','cricket Museum', 'vashi');

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');
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INSERT INTO EXHIBITION VALUES('K123','JG123','2019-03-09','2019-03-27');
INSERT INTO EXHIBITION VALUES('m123','sm123','2021-11-01','2021-11-15');
INSERT INTO EXHIBITION VALUES('N123', 'nc123', '2019-08-21', '2020-01-05');
INSERT INTO EXHIBITION VALUES('I123','gm123','2021-02-25','2021-03-05');
INSERT INTO EXHIBITION VALUES('w123','TwM123','2022-05-15','2022-06-
15');
INSERT INTO EXHIBITION VALUES('c123','cm123','2021-03-09','2021-03-27');
3. INSERTION OF ARTWORK TABLE
INSERT INTO ARTWORK VALUES('A1','Mona
Lisa','1503','Painting','100000','G123','NG123');
INSERT INTO ARTWORK
VALUES('A2','Poppies','1873','photography','15000','H123','MM123');
INSERT INTO ARTWORK
VALUES('A3','Guernica','1937','Painting','25000','I123','TLM123');
INSERT INTO ARTWORK VALUES('A4','The Night
Watch','1642','drawings','90850','J123','BM123');
INSERT INTO ARTWORK VALUES('A5','Two
Sisters','2010','Sculpture','28000','K123','JG123');
INSERT INTO ARTWORK
VALUES('A6','worldcup','2011','Painting','900000','c123','cm123');
INSERT INTO ARTWORK
VALUES('A7','yatra','1920','photography','1500','n123','nc123');
INSERT INTO ARTWORK VALUES('A8', 'Taj
mahal','1937','Painting','25000','g123','ng123');
INSERT INTO ARTWORK
VALUES('A9','firstpm','1947','drawings','90850','n123','nc123');
INSERT INTO ARTWORK
VALUES('A10','maharaj','1650','paint','28000','m123','sm123');
INSERT INTO ARTWORK
VALUES('A11','gandhi','1900','Painting','100000','l123','gm123');
INSERT INTO ARTWORK
VALUES('A12','dhoni','2007','photography','15000','c123','cm123');
INSERT INTO ARTWORK VALUES('A13','big
B','1980','Painting','25000','w123','TwM123');
INSERT INTO ARTWORK
VALUES('A14','srk','2000','drawings','90850','w123','twm123');
INSERT INTO ARTWORK
VALUES('A15','sachin200','2010','photo','28000','c123','cm123');
```

4. INSERTION OF CUSTOMER TABLE

```
INSERT INTO CUSTOMER VALUES('c1','nc123','A9','Akshay','Thakur','2000-04-
16', 'banglore');
INSERT INTO CUSTOMER
VALUES('c2','TwM123','A14','Ashutosh','Ranjan','1998-02-04','goa');
INSERT INTO CUSTOMER VALUES('c3','cm123','A6','Ayush','Dhar','1998-09-
28','vashi');
INSERT INTO CUSTOMER VALUES('c4','cm123','A6','Avanish','Mehta','1994-
10-05', 'Mumbai');
INSERT INTO CUSTOMER
VALUES('c5','twm123','A14','Prashant','Mehta','1996-06-18','surat');
INSERT INTO CUSTOMER VALUES('c6','sm123','A10','ram','yadav','2003-04-
18','panji');
INSERT INTO CUSTOMER VALUES('c7','gm123','A11','Ashu','pal','1998-02-
06','satara');
INSERT INTO CUSTOMER VALUES('c8','cm123','A12','rahul','yadav','1999-09-
08','uran');
INSERT INTO CUSTOMER VALUES('c9','cm123','A12','sonu','sharma','1991-10-
09','Mumbai');
INSERT INTO CUSTOMER VALUES('c10', 'ng123', 'A8', 'rajesh', 'yadav', '1992-06-
15','vapi');
INSERT INTO CUSTOMER VALUES('c11','nc123','A9','Akshay','sanap','2002-04-
14','jaipur');
INSERT INTO CUSTOMER
VALUES('c12','TwM123','A14','santosh','jadhav','1999-02-24','ncr');
INSERT INTO CUSTOMER VALUES('c13','cm123','A6','Ayush','patil','1997-09-
20','noida');
INSERT INTO CUSTOMER VALUES('c14','cm123','A6','Annu','kole','1996-10-
15','delhi');
INSERT INTO CUSTOMER VALUES('c15','twm123','A14','jyoti','singh','1994-
06-19','surat');
INSERT INTO CUSTOMER VALUES('c16','bm123','A4','yash','pal','2001-04-
12','delhi');
INSERT INTO CUSTOMER VALUES('c17','mM123','A2','sumit','tole','1992-03-
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04','kolkata');
INSERT INTO CUSTOMER VALUES('c18','cm123','A15','Ayush','Dhar','1993-09-
13','vashi');
INSERT INTO CUSTOMER
VALUES('c19','cm123','A15','Avanish','Mehta','1995-11-05','Mumbai');
INSERT INTO CUSTOMER
VALUES('c20','twm123','A14','Prashant','Mehta','1999-06-24','kolkata');
5. INSERTION OF ARTIST TABLE
INSERT INTO ARTIST
VALUES('ART1','MM123','c1','nc123','aditi','rane','pune','Oil on Canvas');
INSERT INTO ARTIST
VALUES('ART2','TLM123','c2','w123','shruti','patel','kolaphur','Analytic
Cubism');
INSERT INTO ARTIST
VALUES('ART3','BM123','c3','c123','ritu','gambhir','delhi','Oil Painting');
INSERT INTO ARTIST
VALUES('ART4','JG123','c4','c123','anjali','singh','punjab','Oil Painting');
INSERT INTO ARTIST
VALUES('ART5','NG123','c5','w123','priya','tole','oria','High Renaissance');
6. INSERTION OF CONTACTS TABLE
INSERT INTO CONTACTS VALUES('c1', '9456805776');
INSERT INTO CONTACTS VALUES('c2', '8073271337');
INSERT INTO CONTACTS VALUES('c3', '9980904736');
INSERT INTO CONTACTS VALUES('c4', '7737564076');
INSERT INTO CONTACTS VALUES('c5', '8002391707');
INSERT INTO CONTACTS VALUES('c6', '9456458956');
INSERT INTO CONTACTS VALUES('c7', '8073272323');
INSERT INTO CONTACTS VALUES('c8', '998095656');
INSERT INTO CONTACTS VALUES('c9', '7737564555');
INSERT INTO CONTACTS VALUES('c10', '8002391999');
INSERT INTO CONTACTS VALUES('c11', '9456565776');
INSERT INTO CONTACTS VALUES('c12', '8079651337');
INSERT INTO CONTACTS VALUES('c13', '9587804736');
INSERT INTO CONTACTS VALUES('c14', '1237564076');
INSERT INTO CONTACTS VALUES('c15', '8022221707');
```

QUERIES-

1. FETCH CUST DETAILS USING CONATCATS TABLES.

SELECT * FROM CUSTOMER AS C LEFT JOIN CONTACTS AS D ON C.CUSTID=D.CUSTID;

CUSTID			FNAME1	LNAME1	DOB		CUSTID	
c1	nc123	A9	Akshay	Thakur	2000-04-16			9456805776
c10	ng123	A8	rajesh	yadav	1992-06-15	vapi	c10	8002391999
c11	nc123	A9	Akshay	sanap	2002-04-14	jaipur	c11	9456565776
c12	TwM123	A14	santosh	jadhav	1999-02-24	ncr	c12	8079651337
c13	cm123	A6	Ayush	patil	1997-09-20	noida	c13	9587804736
c14	cm123	A6	Annu	kole	1996-10-15	delhi	c14	1237564076
c15	twm123	A14	ivoti	singh	1994-06-19	surat	c15	8022221707
c16	bm123	A4	vash	pal	2001-04-12	delhi	NULL	NULL
c17	mM123	A2	sumit	tole	1992-03-04	kolkata	NULL	NULL
c2	TwM123	A14	Ashutosh	Ranjan	1998-02-04	goa	c2	8073271337
i c3	cm123	A6	Avush	Dhar	1998-09-28	vashi	c3	9980904736
C4	cm123	A6	Avanish	Mehta	1994-10-05	Mumbai	C4	7737564076
c5	twm123	A14	Prashant	Mehta	1996-06-18	surat	c5	8002391707
C6	sm123	A10	ram	vadav	2003-04-18	panii	c6	9456458956
c7	gm123	A11	Ashu	pal	1998-02-06	satara	c7	8073272323
c8	cm123	A12	rahul	vadav	1999-09-08	uran	c8	998095656
C9	cm123	A12	sonu	sharma	1991-10-09		c9	7737564555
					+			
17 rows i								

2. FETCH RECORDS CUST WHO HAVE BUY ARTWORK

SELECT * FROM CUSTOMER WHERE ARTID IN (SELECT ARTID FROM ARTWORK);

CUSTID			FNAME1	LNAME1	DOB	ADDRESS
с8	cm123	A12	rahul	yadav	1999-09-08	uran
c9	cm123	A12	sonu	sharma	1991-10-09	Mumbai
c13	cm123	A6	Ayush	patil	1997-09-20	noida
c14	cm123	A6	Annu	kole	1996-10-15	delhi
c3	cm123	A6	Ayush	Dhar	1998-09-28	vashi
c4	cm123	A6	Avanish	Mehta	1994-10-05	Mumbai
c10	ng123	A8	rajesh	yadav	1992-06-15	vapi
c17	mM123	A2	sumit	tole	1992-03-04	kolkata
c16	bm123	A4	yash	pal	2001-04-12	delhi
c7	gm123	A11	Ashu	pal	1998-02-06	satara
c6	sm123	A10	ram	yadav	2003-04-18	panji
c1	nc123	A9	Akshay	Thakur	2000-04-16	banglore
c11	nc123	A9	Akshay	sanap	2002-04-14	jaipur
c12	TwM123	A14	santosh	jadhav	1999-02-24	ncr
c15	twm123	A14	jyoti	singh	1994-06-19	surat
c2	TwM123	A14	Ashutosh	Ranjan	1998-02-04	goa
c5	twm123	A14	Prashant	Mehta	1996-06-18	surat

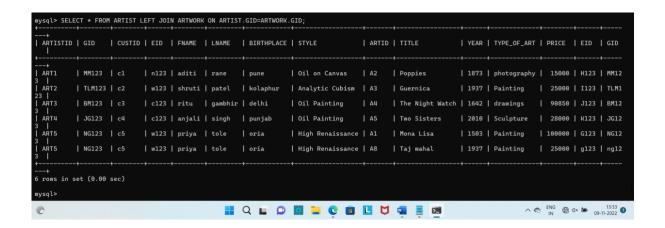
3.SHOW HIGH AND LOW PRICE OF ART

SELECT *, MAX(PRICE) FROM ARTWORK; SELECT *, MIN(PRICE) FROM ARTWORK;



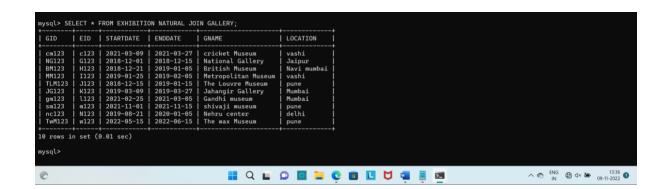
4. LIST OF ALL ARTWORK CREATE BY ARTIST

SELECT * FROM ARTIST LEFT JOIN ARTWORK ON ARTIST.GID=ARTWORK.GID;



5. LIST OF ALL EXHIBITION & GALLERY USING NATURAL JOIN

SELECT * FROM EXHIBITION NATURAL JOIN GALLERY;



6. GROUP BY

GALLERY GROUP BY LOACTION

