**KL University**

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**Department of Computer ScienceEngineering**

**Course code -15CS2007**

**Database Systems**

**II B. Tech – 2nd Semester**

**Academic Year 2016-2017**

**Project Based Lab**

**ON**

**ART gallery (ARTg)**

**Section – S1**

**Batch No: 23**

|  |  |  |
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**K L University**

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

**(DST-FIST Sponsored Department)**



**CERTIFICATE**

This is to certify that the course based project entitled **“ART gallery ”** is a bonafide work done by **P.Sateesh (150030722), V. Lasya (150030991),** in partial fulfilment of the requirement for the award of degree in **BACHELOR OF TECHNOLOGY** in **Computer Science Engineering** during the academic year **2016-2017.**

**Faculty In Charge Head of the Department**

**Mr. Hari Kiran Vege Prof. Srikanth Vemuru**

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

**(DST-FIST Sponsored Department)**



**DECLARATION**

We hereby declare that this project based lab report entitled **“ARTg”** has been prepared by us in partial fulfillment of the requirement for the award of degree “**BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE ENGINEERING**” during the academic year 2016-2017.

We also declare that this project based lab report is of our own effort and it has not been submitted to any other university for the award of any degree.

**Date:**

**Place: Vaddeswaram**

|  |  |
| --- | --- |
| **Name** | **Student ID** |
| **P. Sateesh** | **150030722** |
| **V. Lasya** | **150030991** |

# ACKNOWLEDGMENTS

It is great pleasure for me to express my gratitude to our honorable President **Sri. Koneru Satyanarayana**, for giving the opportunity and platform with facilities in accomplishing the project based laboratory report.

I express the sincere gratitude to our principal **Dr. A. Anand Kumar** for his administration towards our academic growth.

I express sincere gratitude to our Coordinator **Dr. A. Satya Kalyan** for his leadership and constant motivation provided in successful completion of our academic semester.

I record it as my privilege to deeply thank our pioneer **Dr. V. Srikanth**, HOD CSE Dept., for providing us the efficient faculty and facilities to make our ideas into reality.

I express my sincere thanks to our project supervisor­­­­ **Dr.V. Hari Kiran** for his novel association of ideas, encouragement, appreciation and intellectual zeal which motivated us to venture this project successfully.

Finally, it is pleased to acknowledge the indebtedness to all those who devoted themselves directly or indirectly to make this project report success.

**PROJECT ASSOCIATES**

|  |  |
| --- | --- |
| **Name** | **Student ID** |
| **P.Sateesh** | **150030722** |
| **V.Lasya** | **150030991** |

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# Abstract

ARTG, which builds a product for the art galleries. The main aim of this is , a database with a schema that takes all the data that galleries must maintain. The galleries maintain the information about artists, their unique names, place of birth, age, and the style of art. For each piece of art, the artist, the year it was made, its unique title, its type of art (e.g., painting, lithograph, sculpture, photograph), and its price/cost must be stored. The pieces of art can also classified into groups like portraits, still lifes, works by Picasso and so on. An art may belong to more than one group. Each group is identified by a unique name which describes the group. The galleries also keep information about customers. For each customer, galleries keep that person’s unique name, address, total amount of money spent in the gallery and the artists and groups of art that the customer tends to like. Above all you can also become an art dealer. Moreover, you have to have a vision and everything you exhibit and offer for sale should explain that vision. Showing the consistency in the artwork is unique. The very old definition of art gallery is gone, most of the art galleries are unique and attractive. The best location for an art gallery is the best upscale business people who share their ideas. When it comes to buying an art, very few people do this. The people who are well educated and have great artistic thought, plain hearted and various other mentalities of people will go further to buy an art. There may be a variety of art galleries but don’t try to become there will be everything for everybody. Most of the times, the art maker has to open the gallery highlighting their own paintings and art. The American art and Spanish art play a vital role in the world of art galleries. The people will have to look forward to buy an art in the perspective of nature lover or maintain your own gallery in the perspective of manager.

# Introduction

  Database is an organized collection of data. The data is typically organized to model aspects of reality in a way that supports processes requiring information. A DBMS makes it possible for end users to create, read, update and delete data in a database. The DBMS essentially serves as an interface between the database and end users or application programs, ensuring that data is consistently organized and remains easily accessible. The DBMS manages three important things: the data, the database engine that allows data to be accessed, locked and modified and the database schema, which defines the database’s logical structure. These three foundational elements help provide concurrency, security, data integrity and uniform administration procedures. The DBMS can offer both logical and physical data independence. That means it can protect users and applications from needing to know where data is stored or having to be concerned about changes to the physical structure of data.

The main aim of this is, a database with a schema that takes all the data that galleries must maintain. The galleries maintain the information about artists, their unique names, place of birth, age, and the style of art. For each piece of art, the artist, the year it was made, its unique title, its type of art (e.g., painting, lithograph, sculpture, photograph), and its price/cost must be stored. The pieces of art can also classified into groups like portraits, still lifes, works by Picasso and so on. An art may belong to more than one group. Each group is identified by a unique name which describes the group. The galleries also keep information about customers. For each customer, galleries keep that person’s unique name, address, total amount of money spent in the gallery and the artists and groups of art that the customer tends to like. Above all you can also become an art dealer. Moreover, you have to have a vision and everything you exhibit and offer for sale should explain that vision. Showing the consistency in the artwork is unique. The very old definition of art gallery is gone, most of the art galleries are unique and attractive.

# PROJECT DESCRIPTION

If you want to become an artist, you can end with some databases where you just staring at them. But if you maintain your own database, you can see all your mates at one place. So, you establish a database company, ARTG, which builds a product for the art galleries. The main aim of this is, a database with a schema that takes all the data that galleries must maintain. The galleries maintain the information about artists, their unique names, place of birth, age, and the style of art. For each piece of art, the artist, the year it was made, its unique title, its type of art (e.g., painting, lithograph, sculpture, photograph), and its price/cost must be stored. The pieces of art can also classified into groups like portraits, still lifes, works by Picasso and so on. An art may belong to more than one group. Each group is identified by a unique name which describes the group. The galleries also keep information about customers. For each customer, galleries keep that person’s unique name, address, total amount of money spent in the gallery and the artists and groups of art that the customer tends to like. Above all you can also become an art dealer. Moreover, you have to have a vision and everything you exhibit and offer for sale should explain that vision. Showing the consistency in the artwork is unique. The very old definition of art gallery is gone, most of the art galleries are unique and attractive. The best location for an art gallery is the best upscale business people who share their ideas. When it comes to buying an art, very few people do this. The people who are well educated and have great artistic thought, plain hearted and various other mentalities of people will go further to buy an art. There may be a variety of art galleries but don’t try to become there will be everything for everybody. Most of the times, the art maker has to open the gallery highlighting their own paintings and art. The American art and Spanish art play a vital role in the world of art galleries. The people will have to look forward to buy an art in the perspective of nature lover or maintain your own gallery in the perspective of manager.

# List of Entities & Attributes

|  |  |
| --- | --- |
| **ENTITIES** | **ATTRIBUTES** |
| GALLERY | g\_id ,g\_name,g\_address |
| EMPLOYEE | emp\_id, emp\_name ,emp\_address,emp\_join\_date |
| ARTIST | Artist\_id,artist\_name,place\_of\_birth,style\_of\_art |
| ART | Art\_id,unique\_title,year\_it\_was\_made,type\_of\_art,artist\_id |
| OFFER | Offer\_id,offer\_name |
| CUSTOMER | Customer\_id,customer\_name,customer\_address |
| GROUP | Group\_id,group\_name |

**RELATIONSHIPS:**

**Maintains** relationship between GALLERY and ART

**🡪**Gallery maintains arts

**Classified** relationship between GROUP and ART

🡪Art is classified into groups

**Manages** relationship between EMPLOYEE and GALLERY

🡪Manager manages the GALLERY

**WORKS** relationship between EMPLOYEE and GALLERY

🡪Employee works in GALLERY

**PLACES** relationship between GALLERY and OFFER

🡪Gallery places offer

**CONTAINS** relationship between GALLERY and CUSTOMER

🡪Each gallery contains customers

**DEALER** relationship between ARTIST and DEALER

🡪An artist can behave as a dealer

**BUY** relationship between GALLERY,CUSTOMER and ART

🡪Customers buys an art in registered gallery

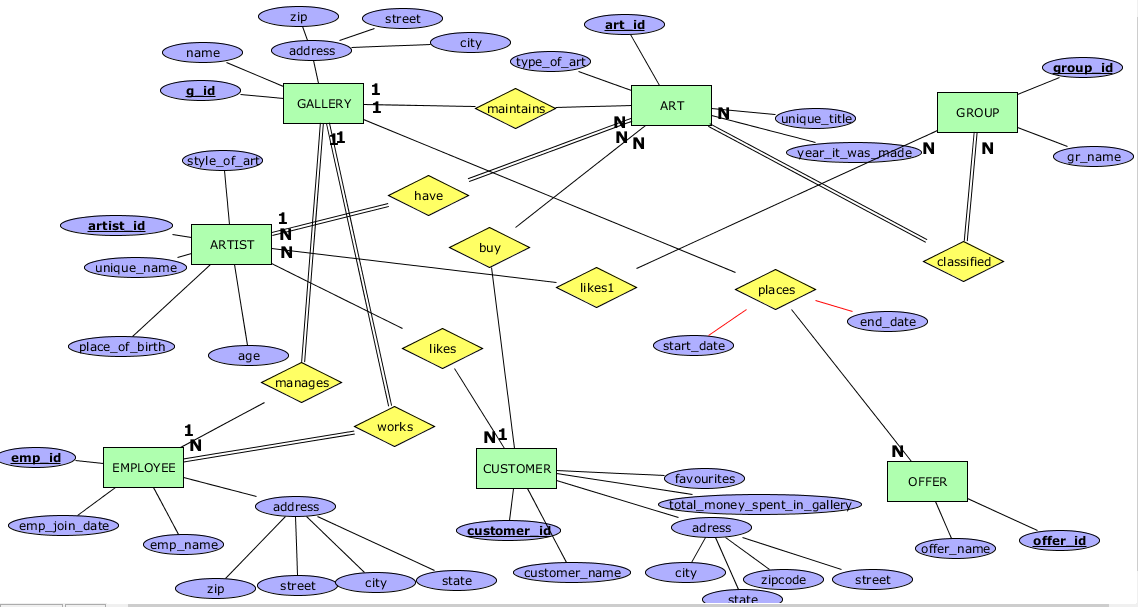
**LIKES** relationship between ARTIST and CUSTOMER

🡪Customer can list have favourite artists.

**LIKES1**  relationship between ARTIST and GROUP\_S

🡪Customer can list have favourite groups.

# ER Diagram (Conceptual Model)

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# Schema Diagram

GALLERY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **g\_id** | g\_name | g\_city | manager\_id | g\_pin |

EMPLOYEE

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **emp\_id** | emp\_name | emp-join\_date | g\_id | emp\_zip | emp\_city | Emp\_street | Emp\_state |

ARTIST

|  |  |  |  |
| --- | --- | --- | --- |
| **artist\_id** | artist\_name | place\_of\_birth | style\_of\_art |

ART

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **art\_id** | unique\_title | year\_it\_was\_made | type\_of\_art | artist\_id |

CUSTOMER

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **customer\_id** | customer\_name | Cus\_zip | Cus\_city | Cus\_street | Cus\_state |

GROUP\_S

|  |  |
| --- | --- |
| **group\_id** | group\_name |

MAINTAINS

|  |  |
| --- | --- |
| **g\_id** | **art\_id** |

CLASSIFIED

|  |  |
| --- | --- |
| art\_id | **group\_id** |

OFFER

|  |  |
| --- | --- |
| offer\_id | Vision |

PLACE

|  |  |
| --- | --- |
| **g\_id** | **offer\_id** |

CONTAINS

|  |  |
| --- | --- |
| **g\_id** | **customer\_id** |

DEALER

|  |  |
| --- | --- |
| **artist\_id** | **dealer\_id** |

BUY

|  |  |  |  |
| --- | --- | --- | --- |
| **customer\_id** | **art\_id** | date | Price |

LIKES

|  |  |
| --- | --- |
| **customer\_id** | **artist\_id** |

LIKES1

|  |  |
| --- | --- |
| **customer\_id** | **group\_id** |

# Normalization & Final List of Relations

By applying normalization to above schema we get the tables in 3NF.The final list of Relations are shown below.

GALLERY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **g\_id** | g\_name | g\_city | manager\_id | g\_pin |

EMPLOYEE

|  |  |  |  |
| --- | --- | --- | --- |
| **emp\_id** | emp\_name | Emp\_join\_date | g\_id |

ADDRESS\_TYPE

|  |  |
| --- | --- |
| **addr\_id** | addr\_type |

ZIP

|  |  |  |  |
| --- | --- | --- | --- |
| **Zipcode** | city | state | country |

EMP\_ADDR

|  |  |  |  |
| --- | --- | --- | --- |
| **emp\_id** | **addr\_id** | street | Zipcode |

ARTIST

|  |  |  |  |
| --- | --- | --- | --- |
| **artist\_id** | artist\_name | place\_of\_birth | style\_of\_art |

ART

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **art\_id** | unique\_title | year\_it\_was\_made | type\_of\_art | artist\_id | height | width | Material |

CUSTOMER

|  |  |
| --- | --- |
| **customer\_id** | customer\_name |

CUS\_ADDR

|  |  |  |  |
| --- | --- | --- | --- |
| **cus\_id** | **addr\_id** | street | Zipcode |

GROUP\_S

|  |  |
| --- | --- |
| **group\_id** | group\_name |

MAINTAINS

|  |  |
| --- | --- |
| **g\_id** | **art\_id** |

CLASSIFIED

|  |  |
| --- | --- |
| **Art\_id** | **group\_id** |

OFFER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **offer\_id** | Offer\_name | Start\_date | End\_date | vision |

PLACE

|  |  |
| --- | --- |
| **g\_id** | **offer\_id** |

CONTAINS

|  |  |
| --- | --- |
| **g\_id** | **customer\_id** |

DEALER

|  |  |
| --- | --- |
| **artist\_id** | **dealer\_id** |

BUY

|  |  |  |  |
| --- | --- | --- | --- |
| **customer\_id** | **art\_id** | date | Price |

LIKES

|  |  |
| --- | --- |
| **customer\_id** | **artist\_id** |

LIKES1

|  |  |
| --- | --- |
| **customer\_id** | **group\_id** |

# **Create & Insert** SQL **Queries**

**CREATION OF TABLES**

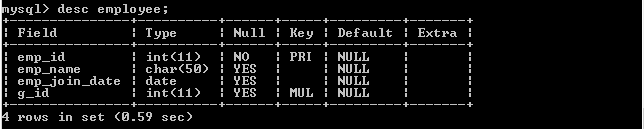
**CREATION OF EMPLOYEE TABLE**

create table if not exists employee(

emp\_id int primary key,

emp\_name char(50),

emp\_join\_date date);



**CREATION OF GALLERY TABLE**

create table if not exists gallery(

g\_id int primary key,

g\_name char(50),

g\_city char(20),

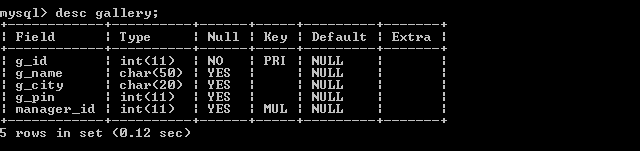
manager\_id int;

constraint fk FOREIGN KEY(manager\_id)REFERENCES employee(emp\_id));

create table if not exists address\_type(

addr\_id int primary key,

addr\_type char(20));

****

**CREATION OF ZIP TABLE**

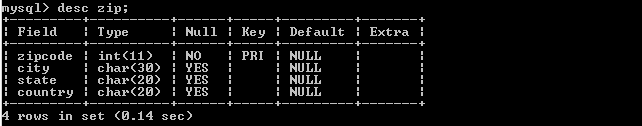
create table if not exists zip(

zipcode int primary key,

city char(30),

state char(20),

country char(20));



**CREATION OF ADDR\_TYPE TABLE**

create table if not exists address\_type(

addr\_id int primary key,

addr\_type char(20));



**CREATION OF EMP\_ADDR TABLE**

create table if not exists emp\_addr(

emp\_id int,

addr\_id int,

street char(100),

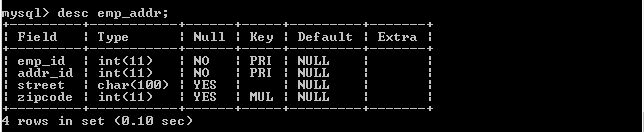
zipcode int,

constraint ei\_fk FOREIGN KEY(emp\_id) REFERENCES employee(emp\_id),

constraint ai\_fk FOREIGN KEY(addr\_id) REFERENCES address\_type(addr\_id),

constraint zi\_fk FOREIGN KEY(zipcode)REFERENCES zip(zipcode),

primary key(emp\_id,addr\_id));



**CREATION OF ARTIST TABLE**

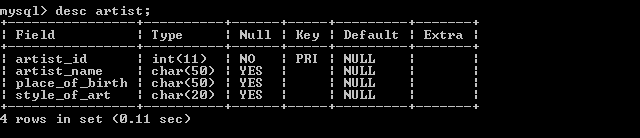
create table if not exists artist(

artist\_id int primary key,

artist\_name char(50),

place\_of\_birth char(50),

style\_of\_art char(20));



**CREATION OF ART TABLE**

create table if not exists art(

art\_id int primary key,

unique\_title char(50),

year\_it\_was\_made year,

type\_of\_art char(20),

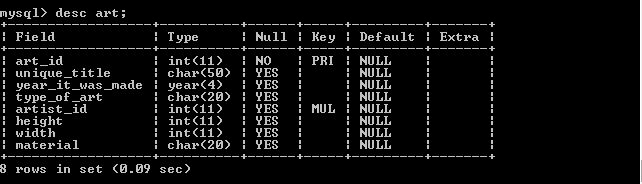
height int,

width int,

material char(20),

artist\_id int,

constraint ar\_fk FOREIGN KEY(artist\_id) REFERENCES artist(artist\_id));



**CREATION OF CUSTOMER TABLE**

create table if not exists customer(

customer\_id int primary key,

customer\_name char(50));



**CREATION OF CUSTOMER \_ADDR TABLE**

create table if not exists cus\_addr(

customer\_id int,

addr\_id int,

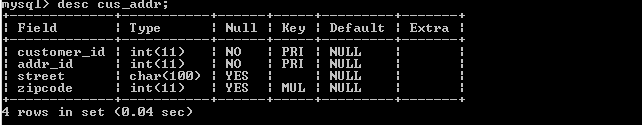
street char(100),

zipcode int,

constraint mi\_fk FOREIGN KEY(customer\_id) REFERENCES customer(customer\_id),

constraint bi\_fk FOREIGN KEY(addr\_id) REFERENCES address\_type(addr\_id),

constraint ci\_fk FOREIGN KEY(zipcode)REFERENCES zip(zipcode),

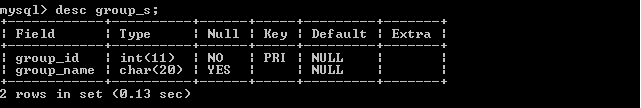
primary key(customer\_id,addr\_id));

**CREATION OF GROUP\_S TABLE**

create table if not exists group\_s(

group\_id int primary key,

group\_name char(20));



**CREATION OF MAINTAINS TABLE**

create table if not exists maintains(

g\_id int,

art\_id int,

constraint g\_fk FOREIGN KEY(g\_id) REFERENCES gallery(g\_id),

constraint ak\_fk FOREIGN KEY(art\_id) REFERENCES art(art\_id),

primary key(g\_id,art\_id));



**CREATION OF CLASSIFIED TABLE**

create table if not exists classified(

art\_id int,

group\_id int,

constraint a\_fk FOREIGN KEY(art\_id) REFERENCES art(art\_id),

constraint r\_fk FOREIGN KEY(group\_id) REFERENCES group\_s(group\_id),

primary key(art\_id,group\_id));



**CREATION OF OFFER TABLE**

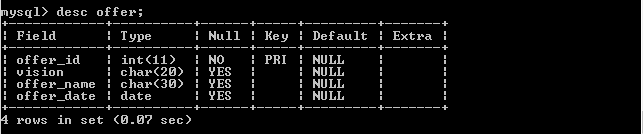
create table if not exists offer(

offer\_id int primary key,

vision char(20)

start\_date date

end\_date date);



**CREATION OF PLACE TABLE**

create table if not exists place(

g\_id int,

offer\_id int,

constraint gr\_fk FOREIGN KEY(g\_id) REFERENCES gallery(g\_id),

constraint or\_fk FOREIGN KEY(offer\_id) REFERENCES offer(offer\_id),

primary key(g\_id,offer\_id));



**CREATION OF CONTAINS TABLE**

create table if not exists contains(

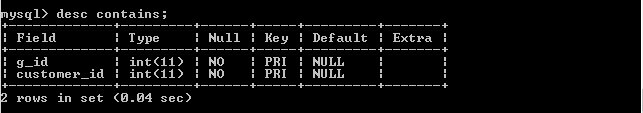
g\_id int,

customer\_id int,

constraint gl\_fk FOREIGN KEY(g\_id) REFERENCES gallery(g\_id),

constraint cr\_fk FOREIGN KEY(customer\_id) REFERENCES customer(customer\_id),

primary key(g\_id,customer\_id));



**CREATION OF DEALER TABLE**

create table if not exists dealer(

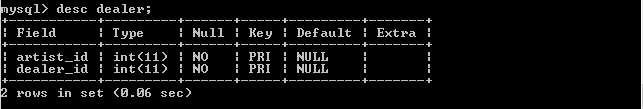
artist\_id int,

dealer\_id int,

constraint at\_fk FOREIGN KEY(artist\_id) REFERENCES artist(artist\_id),

constraint dr\_fk FOREIGN KEY(dealer\_id) REFERENCES artist(artist\_id),

primary key(artist\_id,dealer\_id));



**CREATION OF BUY TABLE**

create table if not exists buy(

customer\_id int,

art\_id int,

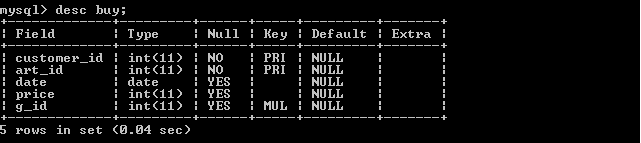
date date,

price int

constraint crr\_fk FOREIGN KEY(customer\_id) REFERENCES customer(customer\_id),

constraint az\_fk FOREIGN KEY(art\_id) REFERENCES art(art\_id),

primary key(customer\_id,art\_id));



**CREATION OF LIKES TABLE**

create table if not exists likes(

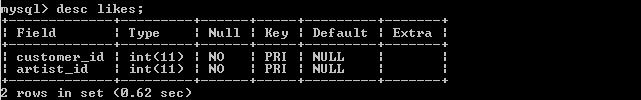
customer\_id int,

artist\_id int,

constraint ax\_fk FOREIGN KEY(artist\_id) REFERENCES artist(artist\_id),

constraint cz\_fk FOREIGN KEY(customer\_id) REFERENCES customer(customer\_id),

primary key(customer\_id,artist\_id));



**CREATION OF LIKES1 TABLE**

create table if not exists likes1(

customer\_id int,

group\_id int,

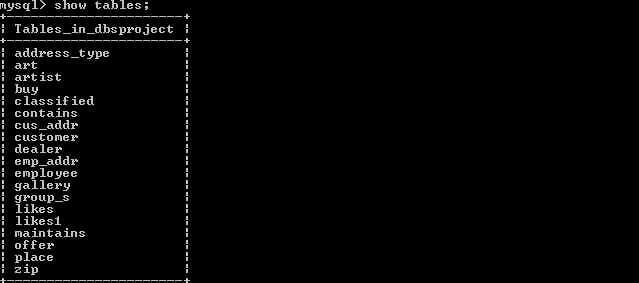
constraint gy\_fk FOREIGN KEY(group\_id) REFERENCES group\_s(group\_id),

constraint cy\_fk FOREIGN KEY(customer\_id) REFERENCES customer(customer\_id),

primary key(customer\_id,group\_id));



**CREATION OF ALL TABLES**

****

**INSERTION OF TABLES**

**INSERTION INTO EMPLOYEE TABLE**

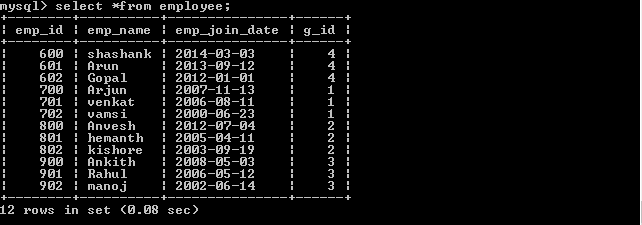
insert into employee(emp\_id,emp\_name,emp\_join\_date,g\_id)values

(700,'Arjun','2007-11-13',1),(701,'venkat','2006-08-11',1),(702,'vamsi','2000-06-23',1),

(800,'Anvesh','2012-07-04',2),(801,'hemanth','2005-04-11',2),(802,'kishore','2003-09-19',2),

(900,'Ankith','2008-05-03',3),(901,'Rahul','2006-05-12',3),(902,'manoj','2002-06-14',3),

(600,'shashank','2014-03-03',4),(601,'Arun','2013-09-12',4),(602,'Gopal','2012-01-01',4);



**INSERTION INTO GALLERY TABLE**

insert into gallery(g\_id,g\_name,g\_city,g\_pin,manager\_id)values

(1,'Young\_blood\_art\_studio','vijayawada',520001,700),(2,'Byrne','guntur',522007,800),

(3,'Dairy Barn','vizag',530016,900),(4,'Redfox','Hyderabad',500001,600);

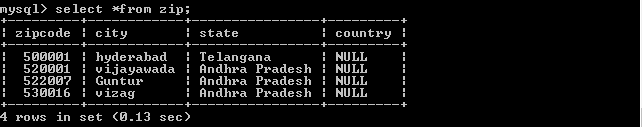


**INSERTION INTO ZIP TABLE**

insert into zip(zipcode,city,state)values(522007,'Guntur','Andhra

Pradesh'),(530016,'vizag','Andhra Pradesh'),(520001,'vijayawada','Andhra

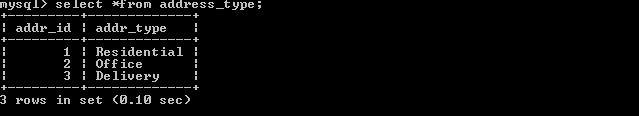
Pradesh'),(500001,'hyderabad','Telangana');



**INSERTION INTO ADDR\_TYPE TABLE**

insert into address\_type(addr\_id,addr\_type)values(1,'Residential'),

(2,'Office'),(3,'Delivery');



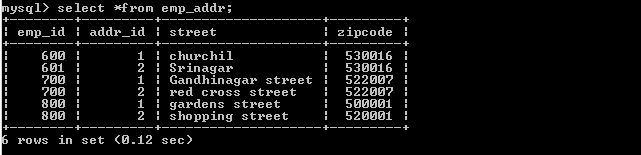
**INSERTION INTO EMP\_ADDR TABLE**

insert into emp\_addr(emp\_id,addr\_id,street,zipcode)values

(700,1,'Gandhinagar street',522007),(700,2,'red cross street',522007),

(600,1,'churchil',530016),(601,2,'Srinagar',530016),(800,1,'gardens

street',500001),(800,2,'shopping street',520001);

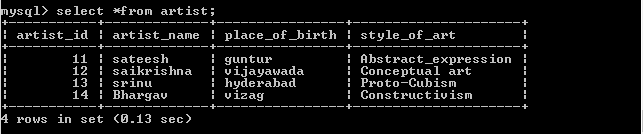


**INSERTION INTO ARTIST TABLE**

insert into artist(artist\_id,artist\_name,place\_of\_birth,style\_of\_art)values

(11,'sateesh','guntur','Abstract\_expression'),(12,'saikrishna','vijayawada','Conceptual art'),

(13,'srinu','hyderabad','Proto-Cubism'),(14,'Bhargav','vizag','Constructivism');



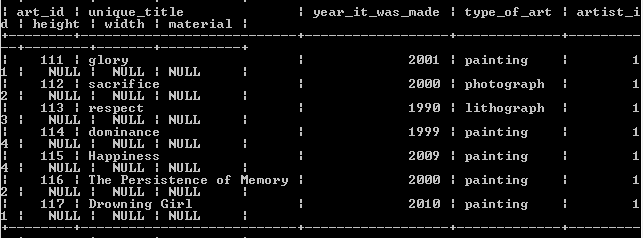
**INSERTION INTO ART TABLE**

insert into art(art\_id,unique\_title,year\_it\_was\_made,type\_of\_art,artist\_id)values

(111,'glory',2001,'painting',11),(112,'sacrifice',2000,'photograph',12),

(113,'respect',1990,'lithograph',13),(114,'dominance',1999,'painting',14),

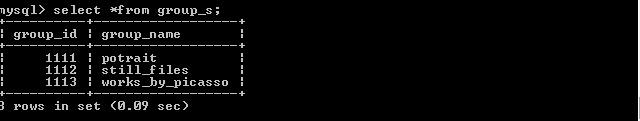
(115,'Happiness',2009,'painting',14), (116,'The Persistence of Memory',2000,'painting',12),(117,'Drowning Girl',2010,'painting',11);



**INSERTION INTO GROUP\_S TABLE**

insert into group\_s(group\_id,group\_name)values(1111,'potrait'),

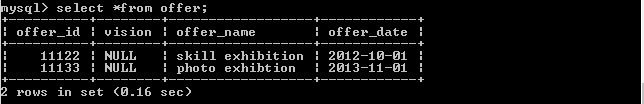
(1112,'still\_files'),(1113,'works\_by\_picasso');



**INSERT ION INTO OFFER TABLE**

insert into offer(offer\_id,offer\_name,offer\_date)values(11122,'skill

exhibition','2012-10-01'),(11133,'photo exhibtion','2013-11-01');

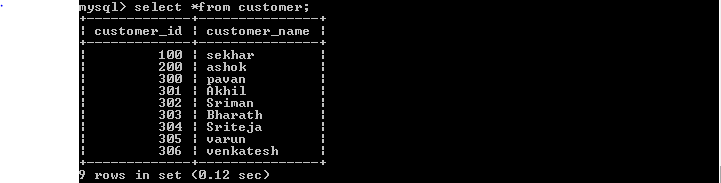


**INSERTION INTO CUSTOMER TABLE**

insert into customer(customer\_id,customer\_name)values(100,'sekhar'),

(200,'ashok'),(300,'pavan'),(301,'Akhil'),(302,'Sriman'),(303,'Bharath'),

(304,'Sriteja'),(305,'varun'),(306,'venkatesh');



**INSERTION INTO CUS\_ADDR TABLE**

insert into cus\_addr(customer\_id,addr\_id,street,zipcode)values

(100,1,'Gandhinagar street',522007),(200,2,'red cross street',522007),

(300,1,'churchil',530016),(301,2,'Srinagar',530016),(302,1,'gardens

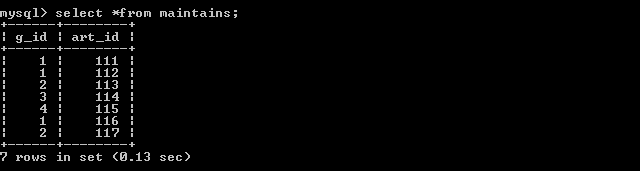
street',500001),(303,2,'shopping street',520001);



**INSERTION INTO MAINTAINS TABLE**

insert into maintains(g\_id,art\_id)values(1,111),(1,112),(2,113),(3,114),

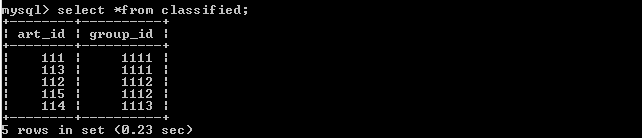
(4,115),(1,116),(2,117);



**INSERTION INTO CLASSIFIED TABLE**

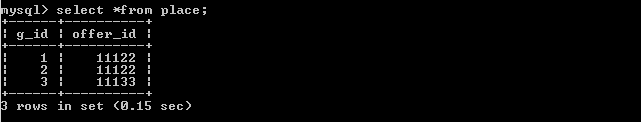
insert into classified(art\_id,group\_id)values(111,1111),(112,1112),

(113,1111),(114,1113),(115,1112);



**INSERTION INTO PLACE TABLE**

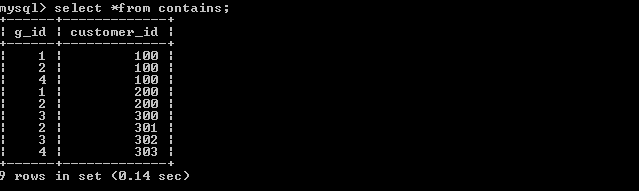
insert into place(g\_id,offer\_id)values(1,11122),(2,11122),(3,11133);



**INSERTION INTO CONTAINS TABLE**

insert into contains(g\_id,customer\_id)values(1,100),(2,200),(1,200),

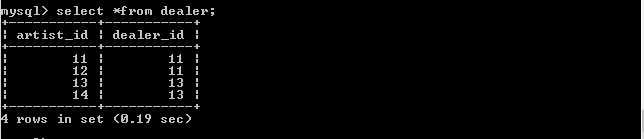
(2,100),(3,300),(4,100),(2,301),(3,302),(4,303);



**INSERTION INTO DEALER TABLE**

insert into dealer(artist\_id,dealer\_id)values(11,11),(12,11),(13,13),

(14,13);

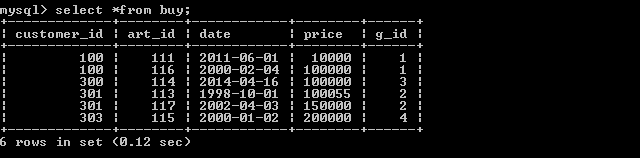


**INSERTION INTO BUY TABLE**

insert into buy(customer\_id,art\_id,date,price,g\_id)values(100,111,'2011-06-01',10000,1),

(300,114,'2014-04-16',100000,3),(301,113,'1998-10-01',100055,2),(303,115,'2000-01-02',200000,4);

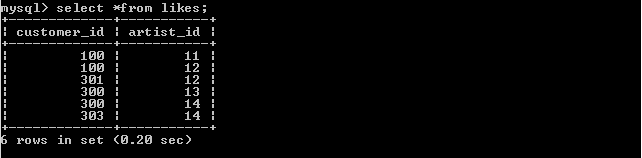
(100,116,'2000-02-04',100000,1),(301,117,'2002-04-03',150000,2);



**INSERTION INTO LIKES TABLE**

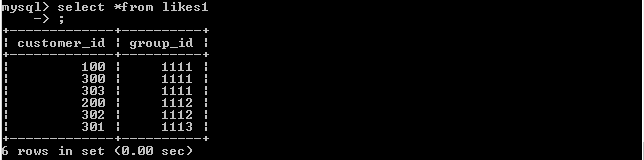
insert into likes(customer\_id,artist\_id)values(100,11),(100,12),(300,13),

(300,14),(301,12),(303,14);



**INSERTION INTO LIKES1 TABLE**

Insert into likes1(customer\_id,group\_id)values(100,1111),(200,1112),(300,1111),(301,1113),(302,1112),(303,1111);



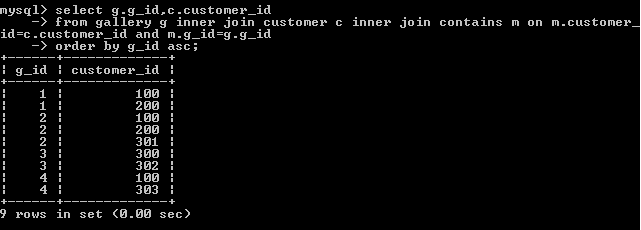
# SQL Queries related to Report Generation

/////////////////////////////////**Query to list customer at each gallery\_id**////////////////////////////////////////////

1. select g.g\_id,c.customer\_id

from gallery g inner join customer c inner join contains m on m.customer\_id=c.customer\_id and m.g\_id=g.g\_id

order by g\_id asc;

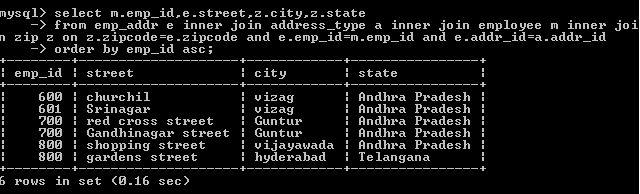


///////////////////////**Query to list residential address details of all the employees**//////////////////////////////

1. select m.emp\_id,e.street,z.city,z.state

from emp\_addr e inner join address\_type a inner join employee m inner join zip z on z.zipcode=e.zipcode and e.emp\_id=m.emp\_id and e.addr\_id=a.addr\_id

order by emp\_id asc;

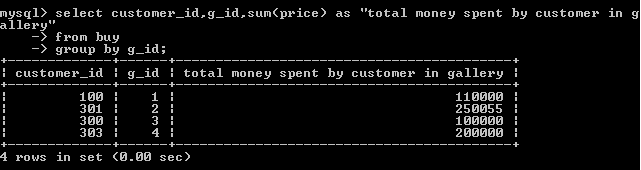


////////////////////////////////////////////Query to list the customer buyed arts///////////////////////////////////////

1. select customer\_id,g\_id,sum(price) as "total money spent by customer in gallery"

from buy

group by g\_id;

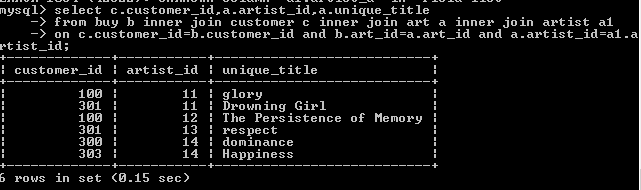


/////////Query to list the names of the artists and titles of arts of customer owned arts////////////

4.select c.customer\_id,a.artist\_id,a.unique\_title

from buy b inner join customer c inner join art a inner join artist a1

on c.customer\_id=b.customer\_id and b.art\_id=a.art\_id and a.artist\_id=a1.artist\_id;

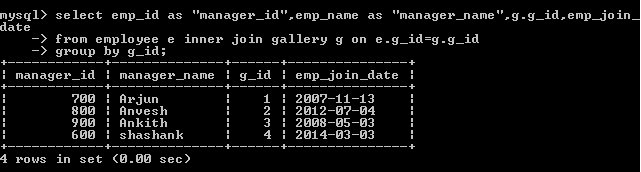


///////////////////////////Query to list the manager name and manager\_id of each gallery/////////////////////

5.select emp\_id as "manager\_id",emp\_name as "manager\_name",g.g\_id,emp\_join\_date

from employee e inner join gallery g on e.g\_id=g.g\_id

group by g\_id;

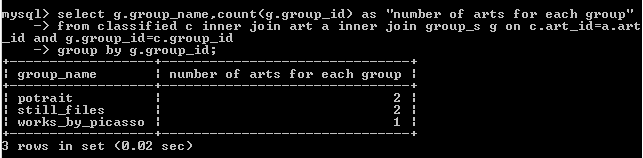


//////////Query to list the number of arts belongs to of each group and their names/////////

6.select g.group\_name,count(g.group\_id) as "number of arts for each group"

from classified c inner join art a inner join group\_s g on c.art\_id=a.art\_id and g.group\_id=c.group\_id

group by g.group\_id;

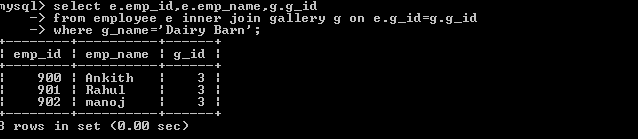


//////////////////////////////Query to list the details employees works for Dairy Barn gallery/////////////////

7.select e.emp\_id,e.emp\_name,g.g\_id

from employee e inner join gallery g on e.g\_id=g.g\_id

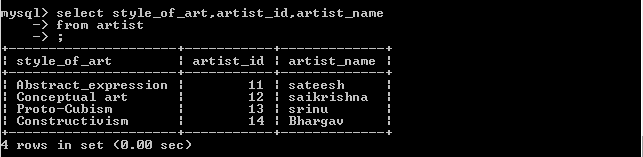
where g\_name='Dairy Barn';



////////////////Query to list style of arts of all artists///////////

8.select style\_of\_art,artist\_id,artist\_name

from artist ;



//////////////////////////////////Query to list the arts belongs to each gallery//////////////////////////////////////////

9. select g.g\_id as "gallery\_id" ,a.art\_id

from maintains m inner join gallery g inner join art a on m.g\_id=g.g\_id and m.art\_id=a.art\_id

order by g.g\_id asc;

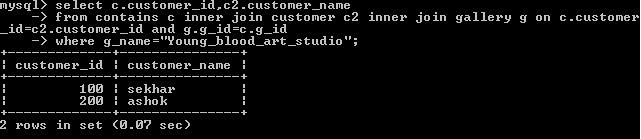


/////////////////////////Query to list the customer names of Young\_blood\_art\_studio/////////////////////

10.select c.customer\_id,c2.customer\_name

from contains c inner join customer c2 inner join gallery g on c.customer\_id=c2.customer\_id and g.g\_id=c.g\_id

where g\_name="Young\_blood\_art\_studio";



# Conclusion

Through painting, the artist expresses ideas and emotions, as well as a version of the reality he or she perceives, in a two-dimensional visual form

In this project we created database of different galleries which maintains the details of artists ,arts and customers and every realtions between them.

The data can be retrieved easily from the database among the relations in such a way we designed our database. It contains every information that held in gallery and the details of person involved in gallery.

We made creation, insertion and successfully executed many DML and DDL queries and normalized the schema into 3NF to reduce redundancy.

Finally, we conclude that ARTg is database which stores the details of each gallery and their employees and customer which makes easy of access to the employees and customers.