

# Art Museum Database Management System

CCCS-215

# -CS-

|  |  |
| --- | --- |
| Student name | Student ID |
| Riham Mohammed Al-Nashri | 2110278 |
| Rawan Fawaz Alsufyani | 2112024 |
| Enas Abdulaziz Alharbi | 2110329 |
| Fatma Saleh Asiri | 2007704 |
| Lama talal Al-Jedani | 2116713 |



## Problem definition:

Nowadays a lot of museums don't have a database to record the clients information or the paintings that is being sold to clients,and the increasing number of reserving tickets, and register the data in the required museum, so when the curator decides to sell/buy a painting we must register it first in the database so we can have an efficient system to handle the data. Also, it can be accessible by the employees to add or remove the requested data quickly and securely.

## Initial list of entities :

-Employee entity

-Museum entity

-Painting entity

-Ticket entity

-Curator entity

## Duties of the project:

each member will handle one entity

|  |  |
| --- | --- |
| Member | Role |
| Riham | Curator |
| Lama | Ticket |
| Enas | Employee |
| Fatma | Museum |
| Rawan | Painting |

Phase 1:



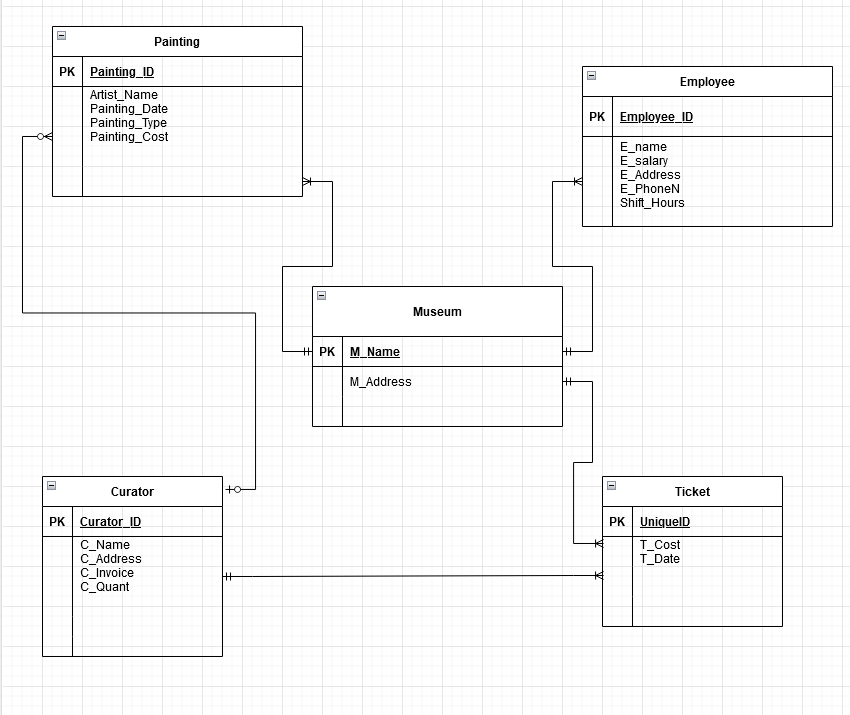
Business Rules:

1. <Employee> <one> <work-in> <one> <museum>
2. <Museum> <one> <has> <any number> <Employee> 3- <Ticket> <one> <reserve> <one> <Museum>

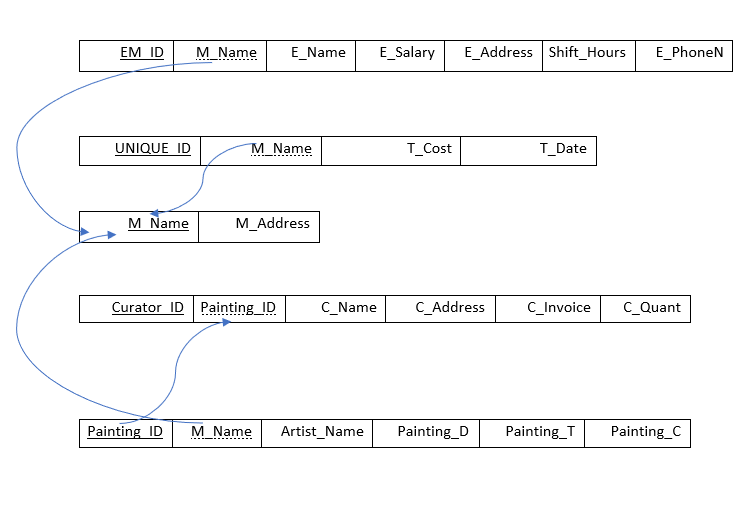
4- <Museum> <one> <bought> <any number> <Ticket> 5- <Curator> <may> <buys> <any number> <Painting> 6- <Painting> <may> <ordered> <one> <Curator>

7- <Curator> <one> <buys> <any number> <Ticket> 8- <Ticket> <one> <has> <one> <Curator>

1. <Painting> <one> <include> <one> <Museum>
2. <Museum> <one> <has> <any number> <Painting>



Phase 2



Employee

Ticket

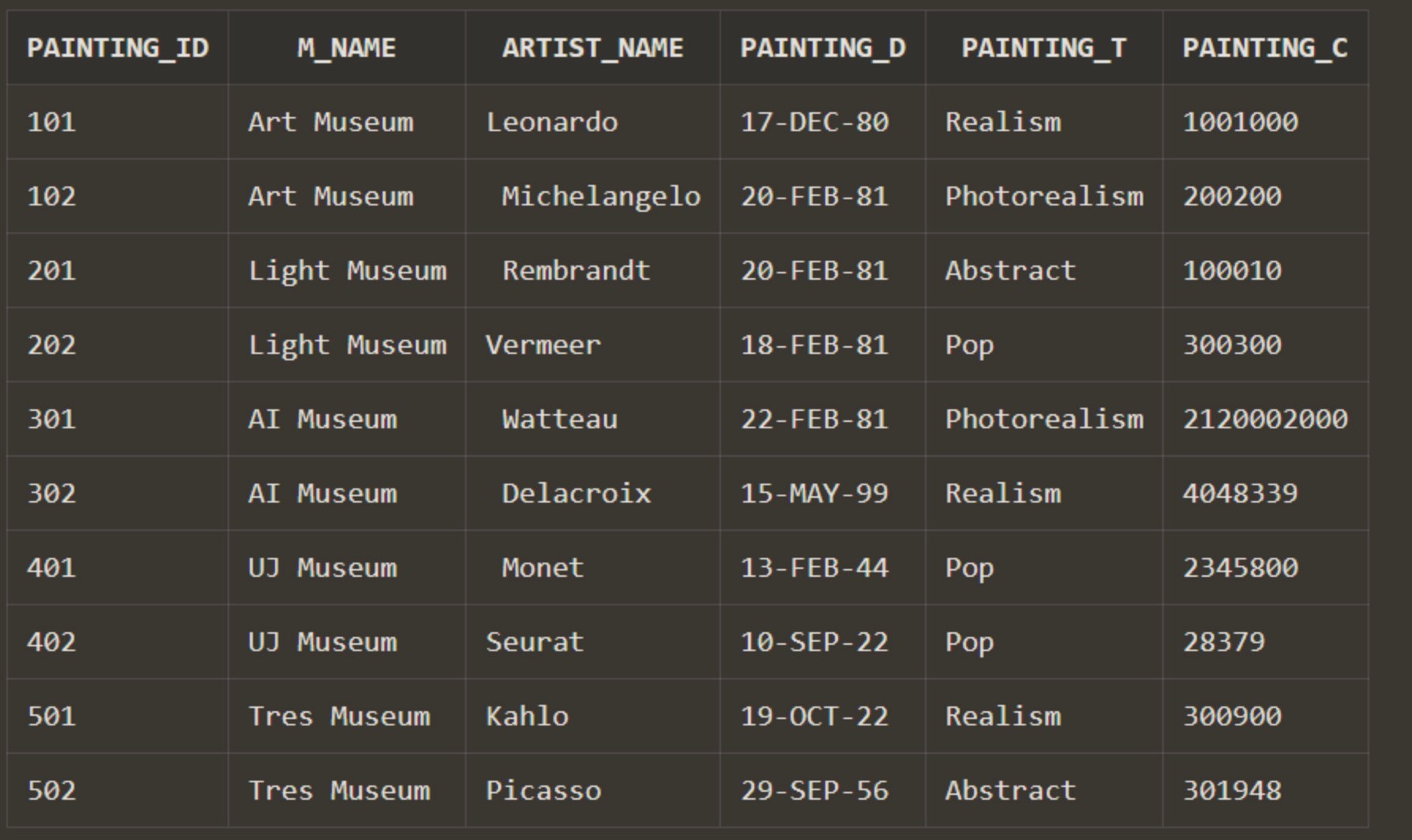
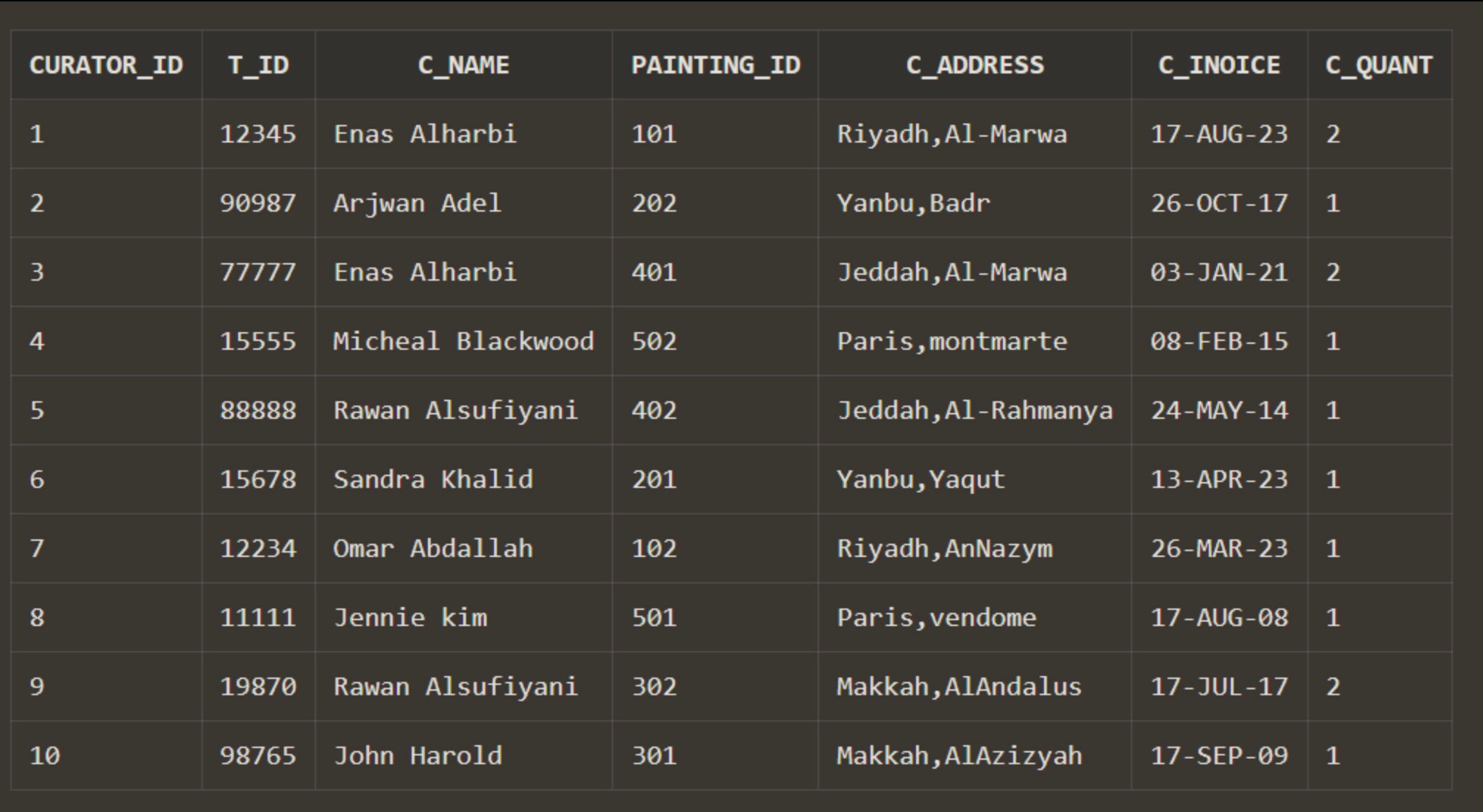
Museum

Curator

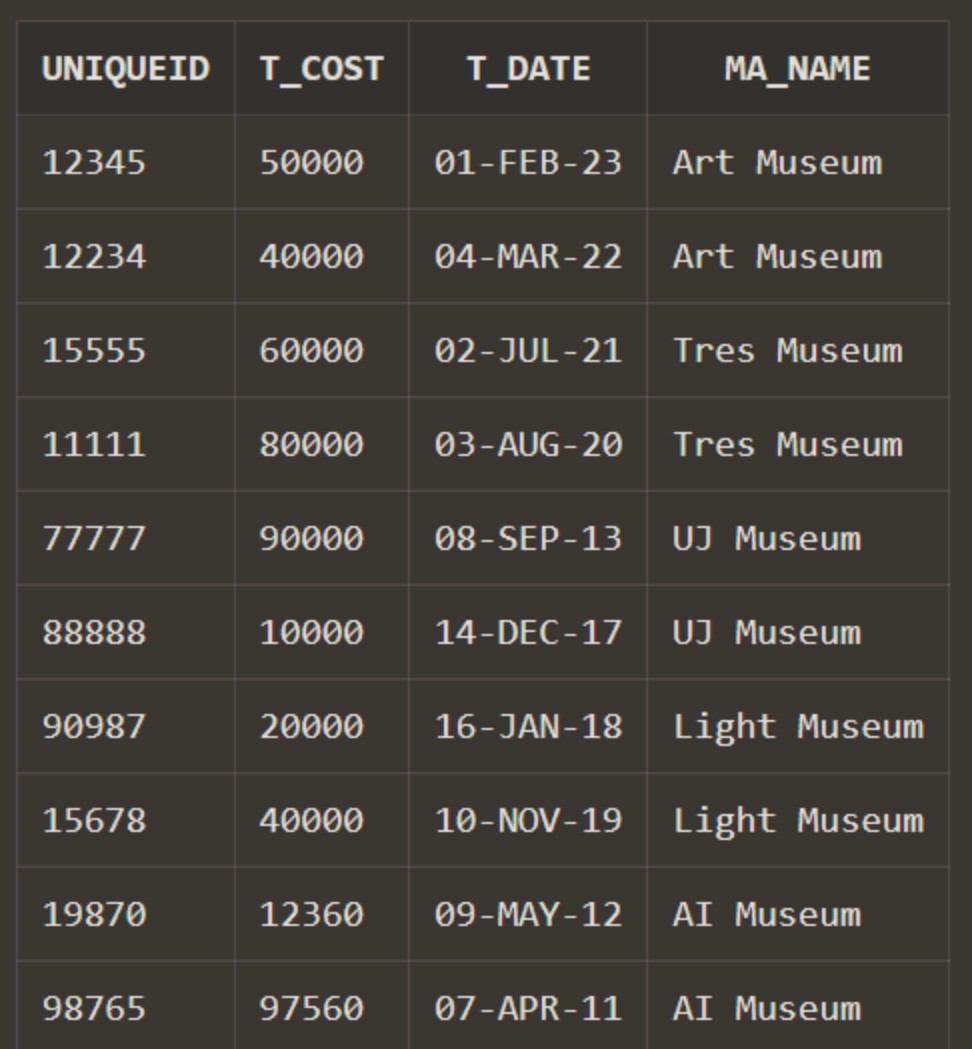
C\_Name

UNIQUE\_ID

Painting

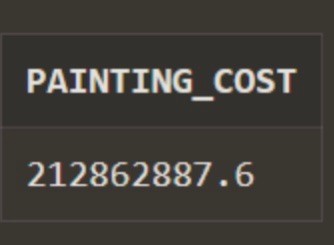
 

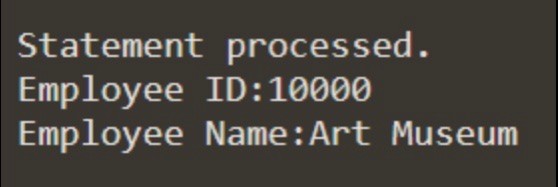
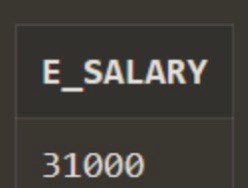






Query



Procedure

Phase3:

create table Curator(

Curator\_ID Number(5) primary key,

T\_ID number(5),

C\_Name Varchar2(20),

Painting\_ID number(3),

C\_Address Varchar2(20),

C\_Inoice date,

C\_Quant number(2)

);

create table Museum(

M\_Name Varchar2(25) primary key,

M\_Address varchar2(25));

create table Employee(

EM\_ID Number(5) primary key,

Me\_Name varchar2(25),

E\_Name Varchar2(20),

E\_Salary Number (6),

E\_Address Varchar2(15),

ShiftHours Number(2),

E\_PhoneN Number(10)

);

create table Ticket(

UniqueID Number(5) primary key,

T\_Cost Number(7),

T\_Date Date,

Ma\_Name varchar(25)

);

create table Painting(

Painting\_ID Number(3) primary key,

M\_Name varchar2(25),

Artist\_Name Varchar2(20),

Painting\_D Date,

Painting\_T Varchar(15),

Painting\_C Number(10)

);

alter table Employee

add foreign Key (Me\_Name) references Museum(M\_Name);

alter table Curator

add foreign key (T\_ID) references Ticket(UniqueID);

alter table Curator

add foreign key (Painting\_ID) references Painting(Painting\_ID);

alter table Painting

add foreign key (M\_name) references Museum(M\_Name);

alter table Ticket

add foreign key (Ma\_Name) references Museum(M\_Name);

insert into museum values ('Art Museum','Riyadh');

insert into museum values ('Tres Museum','Paris');

insert into museum values ('UJ Museum','Jeddah');

insert into museum values ('AI Museum','Makkah');

insert into museum values ('Light Museum','Yanbu');

insert into ticket values (12345,50000,to\_date('01-2-2023','dd-mm-yyyy'),'Art Museum');

insert into ticket values (12234,40000,to\_date('04-3-2022','dd-mm-yyyy'),'Art Museum');

insert into ticket values (15555,60000,to\_date('02-7-2021','dd-mm-yyyy'),'Tres Museum');

insert into ticket values (11111,80000,to\_date('03-8-2020','dd-mm-yyyy'),'Tres Museum');

insert into ticket values (77777,90000,to\_date('08-9-2013','dd-mm-yyyy'),'UJ Museum');

insert into ticket values (88888,10000,to\_date('14-12-2017','dd-mm-yyyy'),'UJ Museum');

insert into ticket values (90987,20000,to\_date('16-1-2018','dd-mm-yyyy'),'Light Museum');

insert into ticket values (15678,40000,to\_date('10-11-2019','dd-mm-yyyy'),'Light Museum');

insert into ticket values (19870,12360,to\_date('09-5-2012','dd-mm-yyyy'),'AI Museum');

insert into ticket values (98765,97560,to\_date('07-4-2011','dd-mm-yyyy'),'AI Museum');

insert into curator values (1,12345,'Enas Alharbi',101,'Riyadh,Al-Marwa',to\_date('17-08-2023','dd-mm-yyyy'),02);

insert into curator values (2,90987,'Arjwan Adel',202,'Yanbu,Badr',to\_date('26-10-2017','dd-mm-yyyy'),01);

insert into curator values (3,77777,'Enas Alharbi',401,'Jeddah,Al-Marwa',to\_date('03-01-2021','dd-mm-yyyy'),02);

insert into curator values (4,15555,'Micheal Blackwood',502,'Paris,montmarte',to\_date('08-02-2015','dd-mm-yyyy'),01);

insert into curator values (5,88888,'Rawan Alsufiyani',402,'Jeddah,Al-Rahmanya',to\_date('24-05-2014','dd-mm-yyyy'),01);

insert into curator values (6,15678,'Sandra Khalid',201,'Yanbu,Yaqut',to\_date('13-04-2023','dd-mm-yyyy'),01);

insert into curator values (7,12234,'Omar Abdallah',102,'Riyadh,AnNazym',to\_date('26-03-2023','dd-mm-yyyy'),01);

insert into curator values (8,11111,'Jennie kim',501,'Paris,vendome',to\_date('17-08-2008','dd-mm-yyyy'),01);

insert into curator values (9,19870,'Rawan Alsufiyani',302,'Makkah,AlAndalus',to\_date('17-07-2017','dd-mm-yyyy'),02);

insert into curator values (10,98765,'John Harold',301,'Makkah,AlAzizyah',to\_date('17-09-2009','dd-mm-yyyy'),01);

insert into employee values (10000,'Art Museum','Lama AlHarbi',25000,'AL-FAYSALIAH',8,0504130388);

insert into employee values (22000,'Art Museum','Enas ALharbi',30000,'Al-MALQA',12,0506661230);

insert into employee values (33000,'Tres Museum','Fatma Alghamdi',12000,'SAINT-FARGEAU',6,0507894102);

insert into employee values (44000,'Tres Museum','Riham alzahrani',26000,'VIVIENNE',8,0509634851);

insert into employee values (55000,'UJ Museum','Rawan abdullah',32000,'AL-FAHAD',12,0555354466);

insert into employee values (66000,'UJ Museum','Ghada abdulaziz',45000,'AL-NASEAM',12,0508343651);

insert into employee values (77000,'AI Museum','Arjwan abdullah',22200,'AL-RASHIDIYYAH',8,0556684810);

insert into employee values (88000,'AI Museum','Khalid abdullah',23500,'ASH SHARAI',6,0565629360);

insert into employee values (99000,'Light Museum','Ahmed Alharbi',45250,'AL-JABRIAH',8,0557412695);

insert into employee values (23000,'Light Museum','Abulaziz alghamdi',10255,'AL-NAKHEEL',12,0508732156);

INSERT INTO painting VALUES (101,'Art Museum','Leonardo',to\_date('17-12-1980','dd-mm-yyyy'), 'Realism',1001000);

INSERT INTO painting VALUES (102,'Art Museum',' Michelangelo',to\_date('20-2-1981','dd-mm-yyyy'),'Photorealism',200200);

INSERT INTO painting VALUES (201,'Light Museum',' Rembrandt',to\_date('20-2-1981','dd-mm-yyyy'),'Abstract',100010);

INSERT INTO painting VALUES (202,'Light Museum','Vermeer', to\_date('18-2-1981','dd-mm-yyyy'),'Pop',300300);

INSERT INTO painting VALUES (301,'AI Museum',' Watteau', to\_date('22-2-1981','dd-mm-yyyy'),'Photorealism',2120002000);

INSERT INTO painting VALUES (302,'AI Museum',' Delacroix',to\_date('15-5-1999','dd-mm-yyyy'), 'Realism',4048339);

INSERT INTO painting VALUES (401,'UJ Museum',' Monet',to\_date('13-2-1844','dd-mm-yyyy'),'Pop',2345800);

INSERT INTO painting VALUES (402,'UJ Museum','Seurat',to\_date('10-9-1922','dd-mm-yyyy'),'Pop',28379);

INSERT INTO painting VALUES (501,'Tres Museum','Kahlo',to\_date('19-10-1922','dd-mm-yyyy'), 'Realism',300900);

INSERT INTO painting VALUES (502,'Tres Museum' ,'Picasso',to\_date('1756-9-29','yyyy-mm-dd'), 'Abstract',301948);

select e\_salary from employee

where e\_salary < 40000;

select T\_cost from ticket

order by T\_cost;

select avg(painting\_c) as Painting\_Cost from painting;

select painting.painting\_ID from curator,painting where painting.painting\_ID = curator.painting\_id;

create or replace procedure display (r\_empno number)

as

r\_name employee.me\_name%type;

begin

select me\_name into r\_name from employee

where em\_id = r\_empno;

dbms\_output.put\_line('Employee ID:' || r\_empno);

dbms\_output.put\_line('Employee Name:' || r\_name);

end display;

exec display(10000);

create or replace procedure shiftC (s\_id number,credit number)

as

s\_newSalary number(6);

s\_oldsalary number(6);

s\_shift number(2);

begin

select e\_salary, shifthours into s\_oldsalary,s\_shift

from employee where em\_id=s\_id;

s\_newsalary := s\_oldsalary + credit;

update employee

set e\_salary = s\_newsalary

where em\_id=s\_id;

end shiftC;

exec shiftc(10000,6000);

select e\_salary

from employee;

select \*

from museum;

select \*

from ticket;

select \*

from employee;

select \*

from curator;

select \*

from painting;