# **CSC 174 Spring 2024**

# **Assignment 3**

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#### Creat tables screenshots

#### artist

```
[mysql>
mysql> create table artist (
    -> aname varchar(50) primary key,
    -> date_born date,
    -> date_died date,
    -> description varchar(255),
    -> country_of_origin varchar(20)
[    -> );
Query OK, 0 rows affected (0.03 sec)

mysql>
```

### art\_object

```
mysql>
mysql> create table art_object(
    -> id_no integer primary key,
    -> year integer,
    -> title varchar(50),
    -> description varchar(255),
    -> artist_name varchar(50),
    -> foreign key (artist_name) references artist(aname)
    -> );
Query OK, 0 rows affected (0.02 sec)
```

### others

```
mysql> create table others(
    -> id_no integer primary key,
    -> type varchar(20),
    -> style varchar(20),
    -> foreign key (id_no) references art_object(id_no)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql>
```

## painting

```
mysql> create table painting(
         -> id_no integer primary key,
         -> type varchar(20),
         -> style varchar(20),
         -> drawn_on varchar(20),
         -> foreign key(id_no) references art_object(id_no)
     Query OK, 0 rows affected (0.03 sec)
                             sculpture
    mysql> create table sculpture (
        -> id_no integer primary key,
        -> material varchar(20),
        -> weight double,
        -> height double,
        -> foreign key(id_no) references art_object(id_no)
    Query OK, 0 rows affected (0.01 sec)
                             exhibition
              mysql> create table exhibition (
                  -> ename varchar(60) primary key,
                  -> start_date date,
                  -> end_date date
                  -> );
              Query OK, 0 rows affected (0.02 sec)
                             shown_at
mysql> create table shown_at(
    -> art int,
   -> exhibition_name varchar(60),
   -> primary key(art, exhibition_name),
   -> foreign key(art) references art_object(id_no),
   -> foreign key (exhibition_name) references exhibition(ename)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

## Insert into tables queries screenshot

#### Insert into artist table

```
mysql> INSERT INTO artist

-> (aname, date_born, date_died, description, country_of_origin)

-> VALUES('Leonardo da Vinct', '1485-04-15', '1519-06-02', 'An Italian polymath of the High Renaissance who was active as a painter, draughtsman, engineer, scientist, theorist, sculptor, and architect', 'Italy');

Query CK, 1 row affected (0.6% sec)
mysql>
mysql> INSERT INTO artist

-> (aname, date_died, description, country_of_origin)

-> VALUES('Vincent van Gogh', '1853-03-30', '1890-07-29', 'A Dutch Post-Impressionist painter who is among the most famous and influential figures in the history of Western art', 'France');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO artist
-> (aname, date_born, date_died, description, country_of_origin)
-> VALUES('Raphael', '1483-01-01', '1520-04-6', 'An Italian painter and architect of the High Renaissance', 'Italy');
Query OK, 1 row affected (0.00 sec)
 mysql> INSERT INTO artist
--> (aname, date_born, date_died, description, country_of_origin)
[-> VALUES('Michelangelo', '1475-03-06', '1564-02-18', 'An Italian sculptor, painter, architect, and poet of the High Renaissance', 'Republic of Florence');
Query OK, 1 row affected (0.00 sec)
mvsql> INSERT INTO artist
-> (aname, date_born, date_died, description, country_of_origin)
-> VALUES('Claude Monet', '1840-11-14', '1926-12-05', 'French painter and founder of impressionist painting', 'France');
Query OK, 1 row affected (0.00 sec)
mysql>
 mvsql> INSERT INTO artist
        -> (aname, date_born, date_died, description, country_of_origin)
       -> VALUES('Louise Bourgeois', '1911-12-25', '2010-05-31', 'French-American artist', 'France');
 Query OK, 1 row affected (0.00 sec)
mysql>
 -> (aname, date_born, date_died, description, country_of_origin)
-> VALUES('John Doe', '1840-11-14', '1926-12-05', 'French painter and founder of impressionist painting', 'France');
Query OK, 1 row affected (0.00 sec)
 mysql> INSERT INTO artist
mysql>
mysql> INSERT INTO artist
         -> (aname, date_born, date_died, description, country_of_origin)
         -> VALUES('John Smith', '1911-12-25', '2010-05-31', 'French-American artist', 'France');
Query OK, 1 row affected (0.00 sec)
mysql>
                                                                  Insert into art_object table
mysgl> INSERT INTO art object
-> (id_no, 'year', title, description, artist_name)
-> VALUES(1, 1505, 'Mona Lisa', 'The Mona Lisa is a half-length portrait painting by Italian artist Leonardo da Vinci', 'Leonardo da Vinci');
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO art_object
--> (id_no, 'year', title, description, artist_name)
--> VALUES(2, 1889, 'The Stary Night', 'The Starry Night is an oil-on-canvas painting by the Dutch Post-Impressionist painter Vincent van Gogh', 'Vincent van Gogh');
Query OK, 1 row affected (0.00 sec)
mysql>
 mysql> INSERT INTO art_object
 -> (id_no, 'year', title, description, artist_name)

-> VALUES(3, 1511, 'The School of Athens', 'The School of Athens is a fresco by the Italian Renaissance artist Raphael', 'Raphael');

Query OK, 1 row affected (0.01 sec)
mysql>
mysql> INSERT INTO art_object
-> (id_no, 'year', title, description, artist_name)

-> VALUES(4, 1504, 'David of Michelangelo', 'David is a masterpiece of Italian Renaissance sculpture Michelangelo', 'Michelangelo');

Query OK, 1 row affected (0.00 sec)
mysql>
```

```
mysql> INSERT INTO art_object
 -> (id_no, `year', title, description, artist_name)
-> VALUES(5, 1872, 'Impression, Sunrise', 'Impression, Sunrise is an 1872 painting by Claude Monet', 'Claude Monet');
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO art_object
  -> (id_no, `year`, title, description, artist_name)
-> VALUES(6, 1504, 'Madonna of Bruges', 'A marble sculpture by Michelangelo of the Virgin and Child.', 'Michelangelo');
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO art_object
     -> (id_no, `year`, title, description, artist_name)
     -> VALUES(7, 1495, 'Angel', 'A statue of an angel', 'Michelangelo');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO art_object
   -> (id_no, `year`, title, description, artist_name)
-> VALUES(8, 1996, 'Spider', 'Spider is a sculpture by Louise Bourgeois', 'Louise Bourgeois');
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO art_object
     -> (id_no, `year`, title, description, artist_name)
     -> VALUES(9, 1872, 'Paiting 1', 'Sunrise painting', 'John Doe');
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO art_object
      -> (id_no, `year`, title, description, artist_name)
      -> VALUES(10, 1504, 'Paiting 2', 'Sunset painting', 'John Doe');
Query OK, 1 row affected (0.00 sec)
mysql> 📗
mysql> INSERT INTO art_object
     -> (id_no, `year`, title, description, artist_name)
    -> VALUES(11, 1495, 'Shining Stars', 'Shining stars on dessert', 'John Smith');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO art_object
     -> (id_no, `year`, title, description, artist_name)
    -> VALUES(12, 1996, 'Paiting', 'A hezerd of ships in snow', 'John Smith');
Query OK, 1 row affected (0.00 sec)
                                Insert into painting table
mysql> INSERT INTO painting
      -> (id_no, `type`, `style`, drawn_on)
      -> VALUES(1, 'portrait', 'half-length portrait', '1503-01-01');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO painting
    -> (id_no, `type`, `style`, drawn_on)
    -> VALUES(2, 'oil-on-canvas', 'east facing window', '1889-06-01');
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO painting
    -> (id_no, `type`, `style`, drawn_on)
    -> VALUES(5, 'painting', 'sunrise of port', '1872-01-01');
Query OK, 1 row affected (0.00 sec)
mysql>
     mysql> INSERT INTO painting
        -> (id_no, `type`, `style`, drawn_on)
    -> VALUES(9, 'portrait', 'style 1', '1503-01-01');
     Query OK, 1 row affected (0.01 sec)
    mysql>
 mysql> INSERT INTO painting
     -> (id_no, `type`, `style`, drawn_on)
     -> VALUES(10, 'oil-on-canvas', 'style 2', '1889-06-01');
 Query OK, 1 row affected (0.00 sec)
 mysql>
    mysql> INSERT INTO painting
        -> (id_no, `type`, `style`, drawn_on)
        -> VALUES(11, 'portrait', 'style 3', '1503-01-01');
    Query OK, 1 row affected (0.01 sec)
    mysql>
mysql> INSERT INTO painting
    -> (id_no, `type`, `style`, drawn_on)
    -> VALUES(12, 'oil-on-canvas', 'style 4', '1889-06-01');
Query OK, 1 row affected (0.00 sec)
mysql>
```

#### Insert into others table

```
mysql> INSERT INTO others
       -> (id_no, `type`, `style`)
       -> VALUES(3, 'history', 'room view');
   Query OK, 1 row affected (0.01 sec)
   mysql>
              Insert into sculpture table
    mysql> INSERT INTO sculpture
        -> (id_no, material, weight, height)
       -> VALUES(4, 'white marble', 6, 17);
    Query OK, 1 row affected (0.00 sec)
    mysql>
 mysql> INSERT INTO sculpture
     -> (id_no, material, weight, height)
     -> VALUES(6, 'bronze and silver', 3, 15);
 Query OK, 1 row affected (0.00 sec)
 mysql>
    mysql> INSERT INTO sculpture
       -> (id_no, material, weight, height)
    -> VALUES(7, 'Marble', 6, 4);
    Query OK, 1 row affected (0.01 sec)
    mysql>
    mysql> INSERT INTO sculpture
        -> (id_no, material, weight, height)
        -> VALUES(8, 'Marble', 2.5, 1.6);
    Query OK, 1 row affected (0.00 sec)
    mysql>
              insert into exhibition table
mysql> INSERT INTO exhibition
    -> (ename, start_date, end_date)
    -> VALUES('E1', '2015-09-14', '2016-02-07');
Query OK, 1 row affected (0.01 sec)
mysql>
```

```
mysql> INSERT INTO exhibition
    -> (ename, start_date, end_date)
    -> VALUES('E2', '2015-11-01', '2016-03-06');
Query OK, 1 row affected (0.00 sec)
mysql>
               Insert into shown_at table
       mysql> INSERT INTO shown_at
           -> (art, exhibition_name)
           -> VALUES(4, 'E1');
       Query OK, 1 row affected (0.00 sec)
       mysql>
      mysql> INSERT INTO shown_at
           -> (art, exhibition_name)
          -> VALUES(1, 'E1');
      Query OK, 1 row affected (0.00 sec)
      mysql>
      mysql> INSERT INTO shown_at
          -> (art, exhibition_name)
          -> VALUES(6, 'E1');
      Query OK, 1 row affected (0.00 sec)
      mysql>
       mysql> INSERT INTO shown_at
           -> (art, exhibition_name)
           -> VALUES(7, 'E1');
       Query OK, 1 row affected (0.00 sec)
       mysql>
        mysql> INSERT INTO shown_at
            -> (art, exhibition_name)
           -> VALUES(12, 'E1');
        Query OK, 1 row affected (0.01 sec
       mysql>
```

```
mysql> INSERT INTO shown_at
    -> (art, exhibition_name)
    -> VALUES(8, 'E1');
Query OK, 1 row affected (0.00 sec)
 mysql> INSERT INTO shown_at
     -> (art, exhibition_name)
     -> VALUES(2, 'E2');
 Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO shown_at
    -> (art, exhibition_name)
    -> VALUES(3, 'E2');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO shown_at
    -> (art, exhibition_name)
    -> VALUES(5, 'E2');
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO shown_at
    -> (art, exhibition_name)
    -> VALUES(11, 'E2');
Query OK, 1 row affected (0.01 sec)
mysql>
mysql> INSERT INTO shown_at
    -> (art, exhibition_name)
    -> VALUES(10, 'E2');
Query OK, 1 row affected (0.00 sec)
mysql>
 mysql> INSERT INTO shown_at
    -> (art, exhibition_name)
    -> VALUES(9, 'E1');
Query OK, 1 row affected (0.00 sec)
mysql>
```

# Create artist\_no\_of\_scluptures view screenshot

```
mysql> create or replace view artist_no_of_sculpture as
    -> select a.aname "artist_name", count(a.aname) "no_of_sculpture" from sculpture s, artist a, art_object ao
    -> where s.id_no = ao.id_no and ao.artist_name = a.aname
    -> GROUP by a.aname
[    -> HAVING count(a.aname ) > 2;
Query OK, 0 rows affected (0.00 sec)

mysql>
```

# Result of artist\_no\_of\_scluptures view screenshot

```
[mysql> select * from artist_no_of_sculpture;
+------+
| artist_name | no_of_sculpture |
+------+
| Michelangelo | 3 |
+-----+
1 row in set (0.00 sec)
```

# Create No\_of\_painting\_exhibited function screenshot

```
mysql> DELIMITER $$
mysql> CREATE FUNCTION
    -> No_of_painting_exhibited(exhibition_name varchar(60)) returns int
    -> DETERMINISTIC
    -> BEGIN
    -> declare no_of_paintings int;
    -> select count(sa.art) into no_of_paintings from shown_at sa , exhibition e, painting p
    -> where e.ename = sa.exhibition_name and e.ename=exhibition_name and sa.art = p.id_no
    -> GROUP by e.ename;
    -> return (no_of_paintings);
    -> end $$
Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER;
[mysql>
mysql>
```

### Result of No of painting exhibited function screenshot

# Create procedure paintings\_sp screenshot

```
-> BEGIN
-> select a.aname , ao.description, p.`style` ,e.ename from exhibition e , painting p , artist a , shown_at sa , art_object ao
-> where e.ename = sa.exhibition_name and ao.artist_name = a.aname and sa.art = p.id_no and p.id_no = ao.id_no and e.ename = exhibition_name and a.aname = artist_name;
mysql> 🎚
                           Calling paintings sp procedure
   mysql> call paintings_sp('E2', 'John Smith');
                    | description
                                                          | style
                                                                       | ename |
    | John Smith | Shining stars on dessert | style 3 | E2
   1 row in set (0.00 sec)
   Query OK, 0 rows affected (0.00 sec)
   mysql>
         [mysql> call paintings_sp('E1', 'John Doe');
          | aname | description | style | ename |
          | John Doe | Sunrise painting | style 1 | E1
          1 row in set (0.00 sec)
          Query OK, 0 rows affected (0.00 sec)
         mysql>
           Drop tables/views/functions/procedures queries screenshots
                 [mysql> drop procedure paintings_sp;
                 Query OK, 0 rows affected (0.00 sec)
                 mysql>
           mysql> drop function No_of_painting_exhibited;
           Query OK, 0 rows affected (0.00 sec)
           mysql>
```

```
mysql> drop view artist_no_of_sculpture;
Query OK, 0 rows affected (0.00 sec)
mysql>
  mysql> drop table shown_at;
   Query OK, 0 rows affected (0.01 sec)
  mysql>
  [mysql> drop table exhibition;
   Query OK, 0 rows affected (0.01 sec)
  mysql>
  [mysql> drop table `others`;
   Query OK, 0 rows affected (0.00 sec)
   mysql>
  [mysql> drop table painting;
   Query OK, 0 rows affected (0.01 sec)
  mysql>
 [mysql> drop table sculpture;
 Query OK, 0 rows affected (0.00 sec)
 mysql>
 [mysql> drop table art_object;
 Query OK, 0 rows affected (0.00 sec)
 mysql>
 [mysql> drop table artist;
 Query OK, 0 rows affected (0.01 sec)
 mysql>
```