***DB PROJECT PHASE3***

**OPERATIONS AND RESULTS USING WEB INTERFACE**

STEP 1: Go to the HTML page named “ART\_GALLERY\_CRUD” which is there in the location: <file:///C:/xampp/htdocs/dbphase3/ART_GALLERY_CRUD.html>

Text

Description automatically generated

1) Click on **DISPLAY** to view the data based on name, city and commission

A screenshot of a computer

Description automatically generated

a) Based on “Name”

A screenshot of a computer

Description automatically generated

b) Based on “city”

A screenshot of a computer

Description automatically generated

c) Based on “commission”

A screenshot of a computer

Description automatically generated

2) Click on **INSERT** to insert a record

Inserted a new artist “Rahim DograN”, in the ARTIST table in the database. The new artist is linked with the state of Texas in the states table.

A picture containing graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated with medium confidence

A picture containing graphical user interface

Description automatically generated

The inserted record can be viewed in database

Graphical user interface

Description automatically generated

3) Click on **UPDATE** to update a record

Background pattern

Description automatically generated with medium confidence

NOTE – As there is no 'Nandalal BoseD' record present in the database – we are inserting a record named ‘Nandalal BoseD’ and then updating it to ‘Nandalal Bose’

=> Inserted ‘Nandalal BoseD’ record

A picture containing graphical user interface

Description automatically generated

Background pattern

Description automatically generated

We can view the inserted record in the database

Graphical user interface, text, application

Description automatically generated

Updated the artist name 'Nandalal BoseD' to 'Nandalal Bose' in the ARTIST record.

Background pattern

Description automatically generated

Data updated successfully as shown below

Background pattern

Description automatically generated

After updating, the database is shown as below

Graphical user interface, application

Description automatically generated

4) Click on **DELETE** to update a record

Background pattern

Description automatically generated

=> Deleted both the records – ‘Rahim DograN’ and ‘Nandalal Bose’

Background pattern

Description automatically generated

Data – 22 is deleted successfully

Background pattern

Description automatically generated

Background pattern

Description automatically generated

Data – 23 is deleted successfully

Background pattern

Description automatically generated

Database after deleting ID = 22 & 23

There are no records of 22 & 23 in the database after deleting them.

Graphical user interface, application

Description automatically generated

**EXECUTION OF VIEW STATEMENTS**

1. **QUERY**:

create view ArtworkInfo as select YEAR(acquisitionDate) as AcqYear, MONTHNAME(acquisitionDate) as AcqMonth, artist.name as ArtistName, artist.birthDate as DOB, artist.stateAb as ArtistState, artwork.title as Title, artwork.form as Form, artwork.price as ArtworkPrice, artwork.creationDate as creationDate, artwork.acquisitionDate as AcquisitionDate, p.upfrontDate as UpfrontDate, b.saleDate as SaleDate, p.finalDate as FinalDate, cus.name as CustomerName, cus.stateAb as CustomerState from artist as artist inner join artwork as artwork on artist.aID = artwork.aID left join payments as p on artwork.artID = p.artID left join bought as b on p.artID = b.artID left join customer as cus on b.cID = cus.cID order by AcqYear, AcqMonth, ArtistName;

**OUTPUT**:

Graphical user interface, application

Description automatically generated

**NOTE:** There are 66 rows, since the execution of view is too slow, it didn’t show the count.

1. **QUERY**:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) ArtistName, ArtistState, CustomerName, CustomerState FROM `artworkinfo` WHERE SaleDate [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html#operator_is) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html#operator_not) null [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html#operator_and) ArtistState<>CustomerState;

**OUTPUT**:

Graphical user interface, text, application

Description automatically generated

Verify :

[select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) a.name, a.stateAb, c.name, c.stateAb from artist a inner join artwork as work on a.aID=work.aID inner join bought as b on work.artID= b.artID inner join customer as c on c.cID= b.cID where c.stateAb <> a.stateAb;

**OUTPUT**:

Graphical user interface, text, application, email

Description automatically generated

We get the same output thus the second query is verified both with a view command and a normal query.

1. **QUERY**:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) ArtistName, [count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count)(CustomerName) FROM `artworkinfo` group by ArtistName;

**OUTPUT**:

Graphical user interface, application, Word

Description automatically generated

1. **QUERY**:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) ArtistName, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count)(ArtistName) as [Count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count) from ([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) DISTINCT ArtistName, title FROM `artworkinfo` where saleDate [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html#operator_is) null group by title order by ArtistName asc) as temp\_query GROUP by ArtistName;

**OUTPUT**:

Graphical user interface, text, application

Description automatically generated

1. **QUERY**:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) ArtistName, [count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count)(ArtistName) as [count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count), [max](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_max)(ArtworkPrice), [MIN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_min)(ArtworkPrice) FROM ([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) DISTINCT ArtistName, title, ArtworkPrice FROM `artworkinfo` group by title order by ArtistName asc) as temp\_query group by ArtistName;

**OUTPUT**:

Graphical user interface

Description automatically generated

VERIFY:

From artwork excel sheet Table

Description automatically generated

From artist excel sheet lets see whose aID correspond to

Table, calendar

Description automatically generated

So, max for Abed Abdi is 15000 and min is 1700 and we got the same in the view output as well. Thus, result verified.

1. **QUERY**:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) ArtistName, Title, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count)(CustomerName) as count  FROM `artworkinfo` group by title having [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count)(CustomerName)>1;

**OUTPUT**

Graphical user interface, text, application

Description automatically generated

1. **QUERY**:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) ArtistName, Title, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count)(CustomerName) as count FROM `artworkinfo` group by title having [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/group-by-functions.html#function_count)(CustomerName)=1;

**OUTPUT**:

Graphical user interface, text, application

Description automatically generated

**TECHNOLOGIES USED:**

* **PHP, XAMPP similar to what was uploaded in the videos in canvas.**

