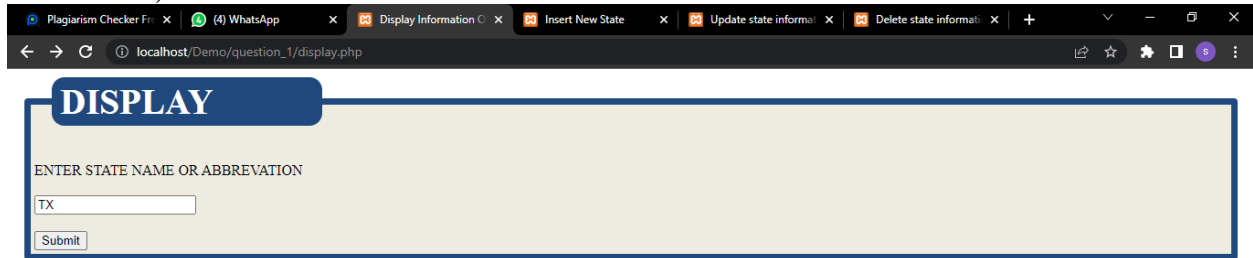
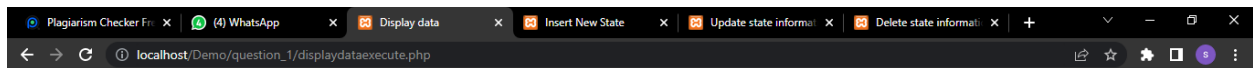


## PROJECT PHASE 3

**Q1.** Display the customer details based on any one of the following: state name or stateAb (For example Texas or TX)



The screenshot shows a web browser window with multiple tabs. The active tab is titled 'localhost/Demo/question\_1/display.php'. The page content features a dark blue header with the word 'DISPLAY' in white. Below the header, there is a light beige rectangular area containing the text 'ENTER STATE NAME OR ABBREVIATION'. Underneath this text is a white text input field with 'TX' entered, and a blue 'Submit' button.

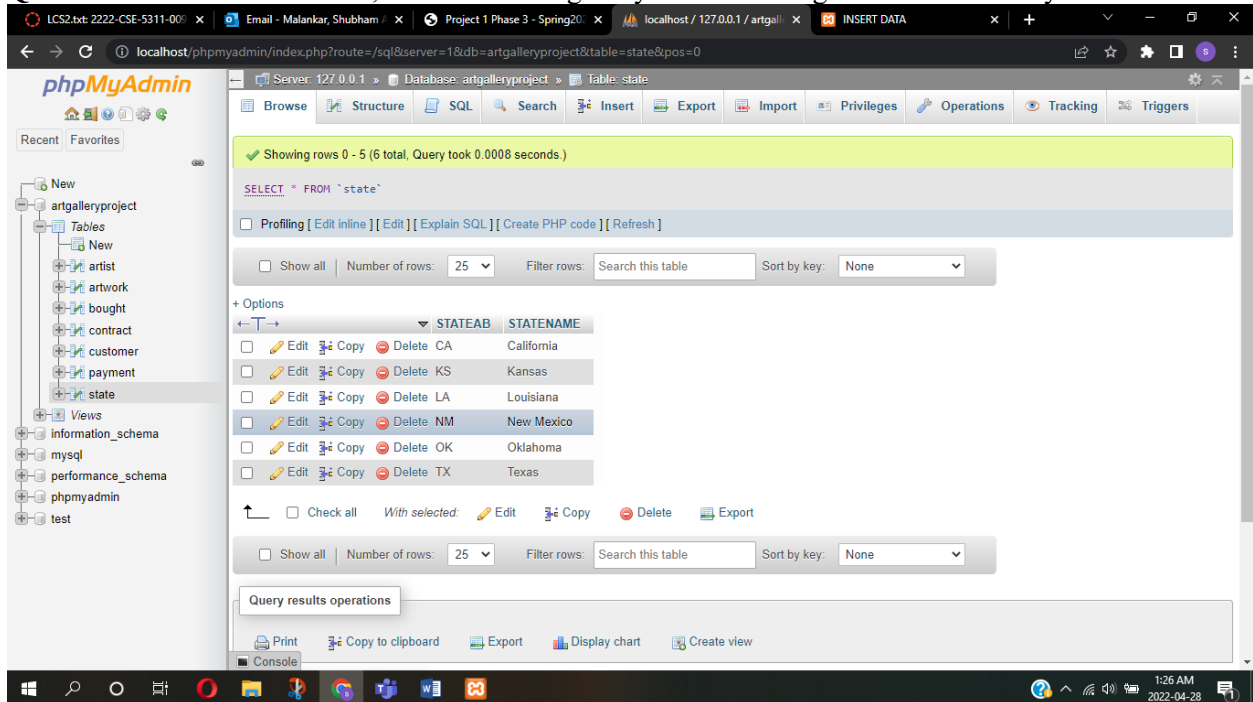


The screenshot shows a web browser window with the active tab titled 'localhost/Demo/question\_1/displaydataexecute.php'. The page displays a table with customer information. The table has six columns: CID, Customer Name, Street, City, State, and Zipcode. There are 14 rows of data, each representing a customer.

CID	Customer Name	Street	City	State	Zipcode
1	Mahbod Seraji	1500 E Exchange Road	Allen	Texas	75002-4504
2	Shazadi Seraji	1500 E Exchange Road	Allen	Texas	75002-4504
3	Nadia Hashimi	1405 Julian Street	Addison	Texas	75001-4633
4	Tahmima Anam	11200 Graceland Lane	Frisco	Texas	75033-0062
5	Elena Lee	800 Preston Road	Gunter	Texas	75058-0001
6	Harper Lee	800 Preston Road	Gunter	Texas	75058-0001
7	Scott Green	150 Main Road	Gunter	Texas	75058-0001
8	Mary Green	150 Main Road	Gunter	Texas	75058-0001
9	Tom Twain	1010 Spicewood Drive	Garland	Texas	75044-2569
10	Maya Morrison	2018 N Travis Street	Sherman	Texas	75090-0006
11	Jay Steinbeck	1092 Old Kaufman Road	Kemp	Texas	75143-0001
12	Linda Steinbeck	6400 Shortland Drive	Dallas	Texas	75248-7405
13	Randy Bradbury	1200 Speed Street	Marshall	Texas	75670-0001
14	Wu Ming	125 Sterling Price Street	Tatum	Texas	75691-0809

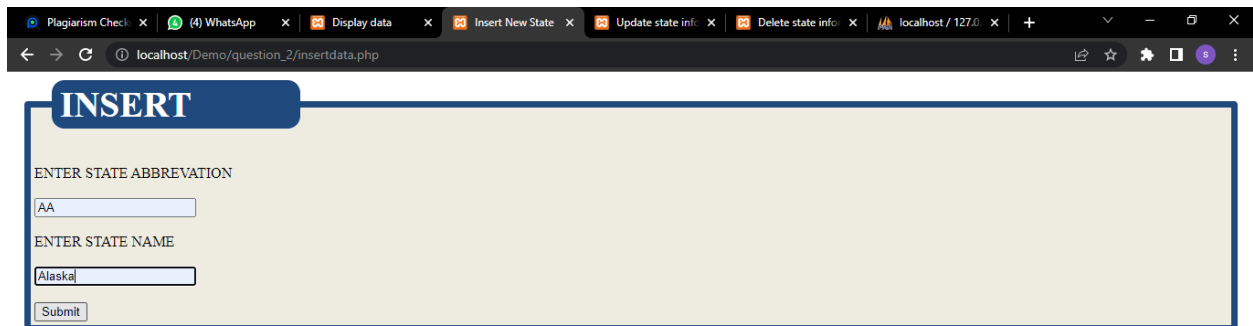


Q2. Insert a new state 'Alaska', 'AA' in the art gallery database using the web interface you created.



phpMyAdmin interface showing the 'state' table in the 'artgalleryproject' database. The table contains 6 rows of state data. The 'state' table structure is visible, showing columns STATEAB and STATENAME. The 'state' table is selected, and the 'Insert' tab is active.

STATEAB	STATENAME
CA	California
KS	Kansas
LA	Louisiana
NM	New Mexico
OK	Oklahoma
TX	Texas



INSERT

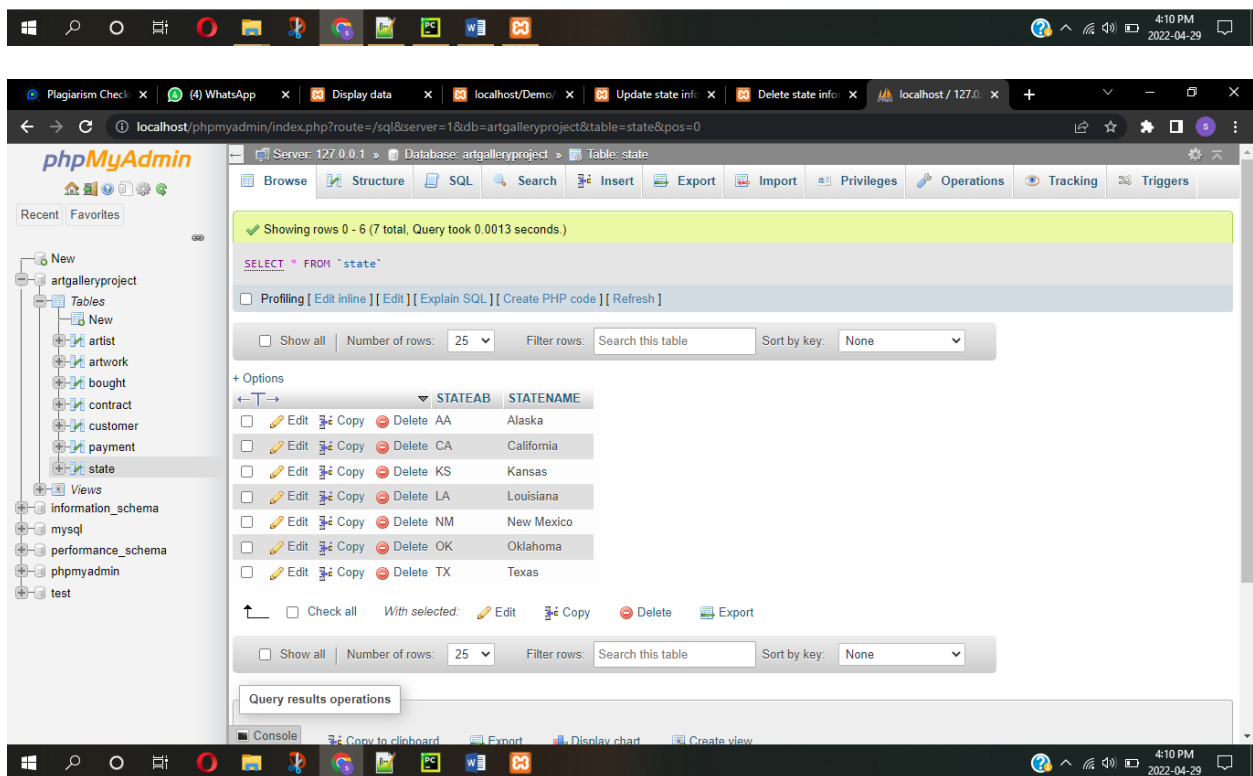
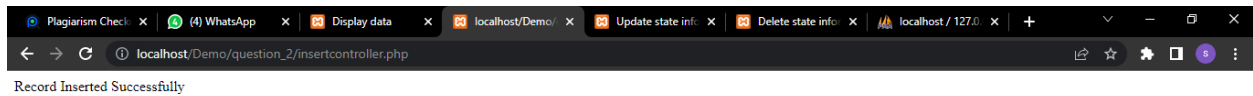
ENTER STATE ABBREVIATION

AA

ENTER STATE NAME

Alaska

Submit



**Q3.** Update the state record that you just added to 'Alaska', 'AK' using the web interface you created.

Showing rows 0 - 6 (7 total. Query took 0.0013 seconds.)

```
SELECT * FROM `state`
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	STATEAB	STATENAME
<input type="checkbox"/>	AA	Alaska
<input type="checkbox"/>	CA	California
<input type="checkbox"/>	KS	Kansas
<input type="checkbox"/>	LA	Louisiana
<input type="checkbox"/>	NM	New Mexico
<input type="checkbox"/>	OK	Oklahoma
<input type="checkbox"/>	TX	Texas

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Console Copy to clipboard Export Display chart Create view

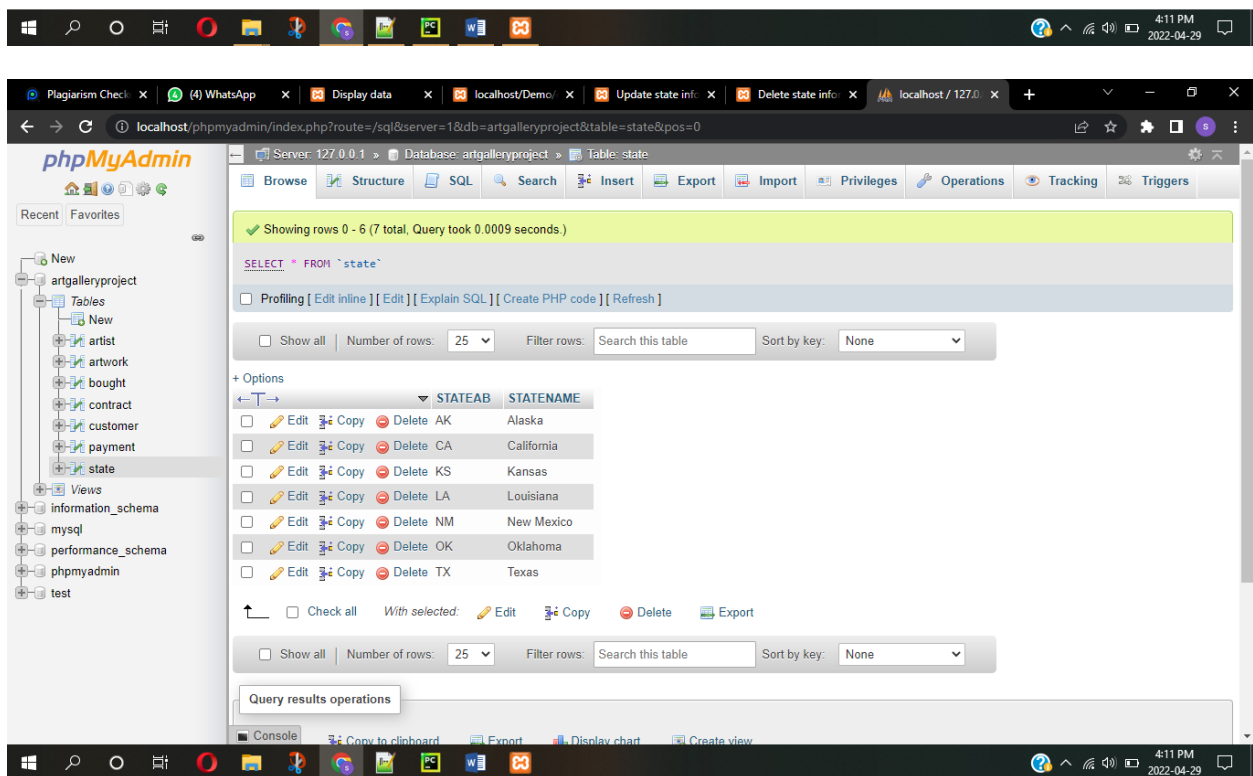
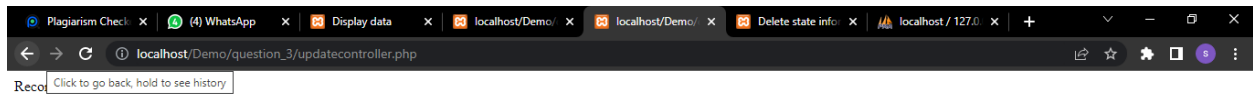
localhost/Demo/question\_3/updatedata.php

## UPDATE

Please enter STATE NAME whose STATE ABBREVIATION you want to change

State Abbreviation:

State Name:



**Q4.** Delete the state of Alaska record that you just added using the web interface you created.

Showing rows 0 - 6 (7 total. Query took 0.0013 seconds.)

```
SELECT * FROM `state`
```

Options

	STATEAB	STATENAME
<input type="checkbox"/>	Delete AK	Alaska
<input type="checkbox"/>	Delete CA	California
<input type="checkbox"/>	Delete KS	Kansas
<input type="checkbox"/>	Delete LA	Louisiana
<input type="checkbox"/>	Delete NM	New Mexico
<input type="checkbox"/>	Delete OK	Oklahoma
<input type="checkbox"/>	Delete TX	Texas

Query results operations

Console

# DELETE

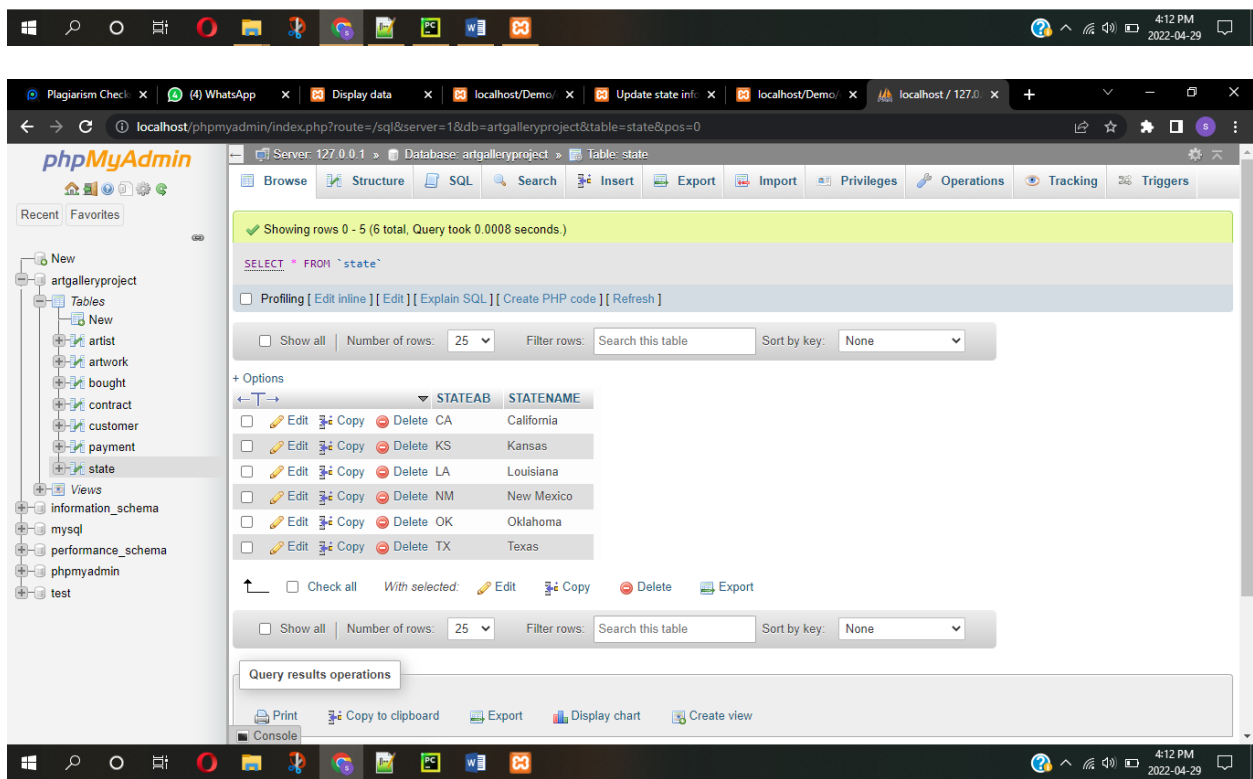
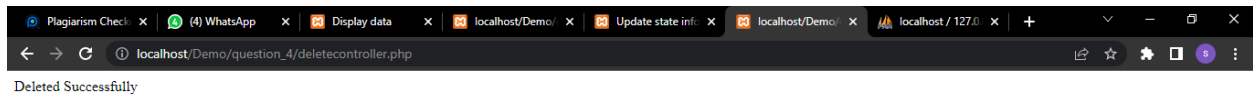
Please Enter Statename

State Name:

DELETE

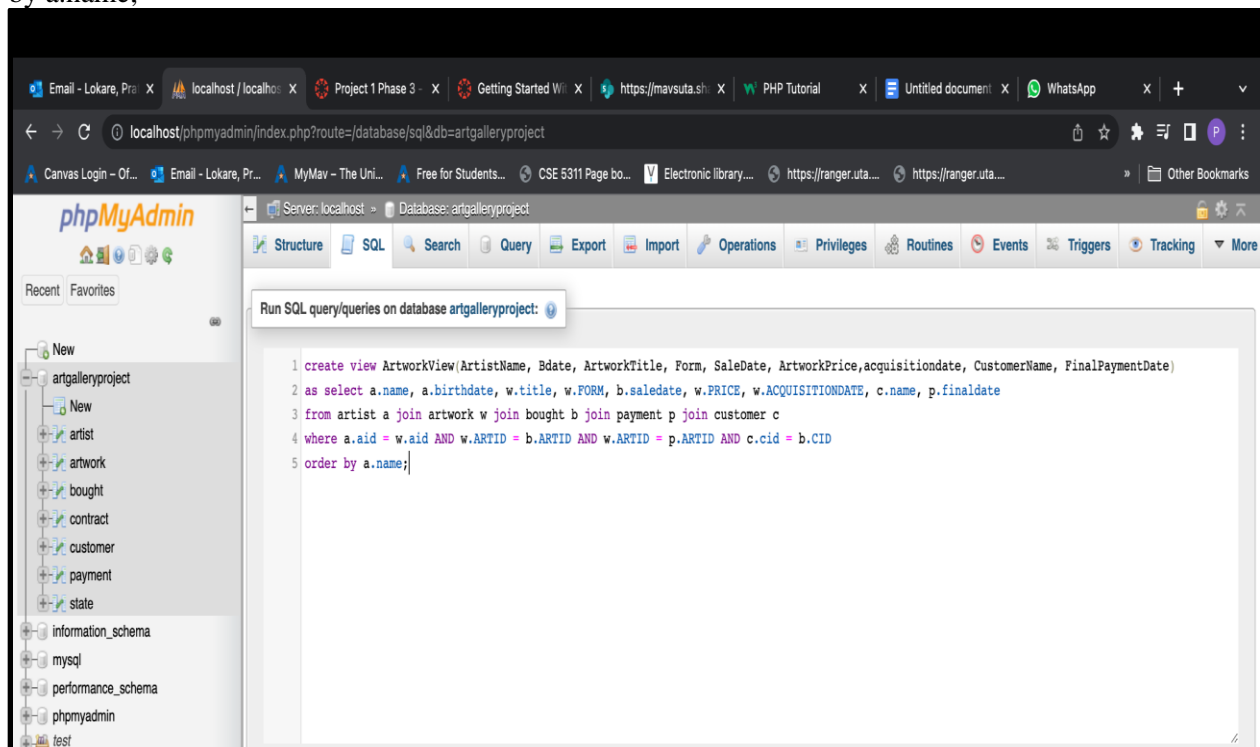
Task View

4:12 PM 2022-04-29



**QV1** Create a view ArtworkView that shows name of artist as ArtistName, his date of birth as Bdate, title of the artwork as ArtworkTitle, the form of artwork as Form, the sale date as SaleDate, the price as ArtworkPrice, the customer's name who bought the artwork as CustomerName, final date of the payment as FinalPaymentDate, and the acquisition date of that artwork as AcquisitionDate. Records should be sorted by the name of the artist.

**Query** - create view ArtworkView(ArtistName, Bdate, ArtworkTitle, Form, SaleDate, ArtworkPrice, acquisitiondate, CustomerName, FinalPaymentDate) as select a.name, a.birthdate, w.title, w.FORM, b.saledate, w.PRICE, w.ACQUISITIONDATE, c.name, p.finaldate from artist a join artwork w join bought b join payment p join customer c where a.aid = w.aid AND w.ARTID = b.ARTID AND w.ARTID = p.ARTID AND c.cid = b.CID order by a.name;





ArtistName	Bdate	ArtworkTitle	Form	SaleDate	ArtworkPrice	acquisitiondate	CustomerName	FinalPaymentDate
Abed Abdi	2000-01-01	Refugee Camp	painting	2021-07-08	12000.00	2021-02-07	Mahbod Seraji	2021-07-08
Abed Abdi	2000-01-01	Refugee Camp	painting	2021-07-08	12000.00	2021-02-07	Shazadi Seraji	2021-07-08
Abed Abdi	2000-01-01	Palestinian Women	painting	2021-08-08	1700.00	2021-02-07	Nadia Hashimi	2021-08-08
Albert Bierstadt	1999-09-10	Mount Hood	print	2021-09-12	200.00	1995-09-12	Wu Ming	2021-09-12
Albert Bierstadt	1999-09-10	Street in Nassau	print	2019-03-03	200.00	1995-09-12	Dia Davidar	2019-03-03
Albert Bierstadt	1999-09-10	The Wolf River	print	2018-02-02	200.00	1995-09-12	Anil Desai	2018-02-02
Edward Hopper	2000-01-20	Morning Sun	painting	2020-10-10	12000.00	2020-07-02	Amitav Ghosh	2020-10-10
Georgia O'Keeffe	1997-11-05	Leaf Motif	print	2020-08-09	350.00	2011-07-11	Ben Okri	2020-08-09
Georgia O'Keeffe	1997-11-05	Jimson Weed	painting	2020-08-09	18000.00	2019-07-04	Helon Habila	2020-08-09
Jasper Johns	1970-01-02	Three Flags	painting	2000-12-19	11500.00	2000-12-12	Jay Steinbeck	2000-12-19
Jasper Johns	1970-01-02	Three Flags	painting	2000-12-19	11500.00	2000-12-12	Linda Steinbeck	2000-12-19
Jasper Johns	1970-01-02	Map	painting	2020-12-10	19000.00	2018-12-12	Randy Bradbury	2020-12-10
Li Chen	2000-01-20	Twilight Breeze	painting	2020-07-07	15000.00	2020-10-25	Ana Castillo	2021-01-01
Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000.00	2021-01-01	Elena Lee	2021-08-08
Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000.00	2021-01-01	Harper Lee	2021-08-08
Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000.00	2021-01-01	Scott Green	2021-08-08
Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000.00	2021-01-01	Mary Green	2021-08-08
Nandalal Bose	1980-01-09	Singawala	painting	2020-08-09	10000.00	2017-07-02	Tom Twain	2020-08-09
Shakir Ali	1995-02-04	Bird	sculpture	2021-07-07	40000.00	2021-05-04	Tahmima Anam	2021-07-07
Sunil Das	1985-08-01	Blue Horse	sculpture	2020-07-07	20000.00	1999-08-15	Maya Morrison	2020-07-07
Zhan Wang	1999-03-03	Mirror Garden	sculpture	2018-09-10	10000.00	2016-07-07	Carlos Fuentes	2018-09-10
Zhan Wang	1999-03-03	Mirror Garden	sculpture	2018-09-10	10000.00	2016-07-07	Cristina Fuentes	2018-09-10

**QV2.** Use the view ArtworkView to retrieve a list of unique names of the artists and their customers when both the names start with vowels.

**Query** - `SELECT distinct ArtistName, CustomerName FROM `artworkview` WHERE (`ArtistName` LIKE 'A%' or `ArtistName` LIKE 'E%' or `ArtistName` LIKE 'I%' or `ArtistName` LIKE 'O%' or `ArtistName` LIKE 'U%') and (`CustomerName` LIKE 'A%' or `CustomerName` LIKE 'E%' or `CustomerName` LIKE 'I%' or `CustomerName` LIKE 'O%' or `CustomerName` LIKE 'U%')`

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 1 (2 total, Query took 0.0102 seconds.)

```
SELECT distinct ArtistName, CustomerName FROM `artworkview` WHERE (`ArtistName` LIKE 'A%' or `ArtistName` LIKE 'E%' or `ArtistName` LIKE 'I%' or `ArtistName` LIKE 'O%' or `ArtistName` LIKE 'U%') and (`CustomerName` LIKE 'A%' or `CustomerName` LIKE 'E%' or `CustomerName` LIKE 'I%' or `CustomerName` LIKE 'O%' or `CustomerName` LIKE 'U%');
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

ArtistName	CustomerName
Albert Bierstadt	Anil Desai
Edward Hopper	Amitav Ghosh

**QV3** Use the view **ArtworkView** to retrieve a list of unique names of the artists whose artwork form is painting.

**Query** - `SELECT distinct ArtistName FROM `artworkview` WHERE form = 'painting'`

The screenshot shows the phpMyAdmin interface with the 'artworkview' table selected. The SQL query `SELECT distinct ArtistName FROM `artworkview` WHERE form = 'painting';` has been executed, resulting in 6 rows of data. The results are displayed in a table with the following data:

ArtistName
Abed Abdi
Edward Hopper
Georgia O'Keeffe
Jasper Johns
Li Chen
Nandalal Bose

**QV4** Use the view **ArtworkView** to retrieve a list of unique names of the artists, artwork title, and the price when the price is greater than \$250.00 and less than \$15,000.00

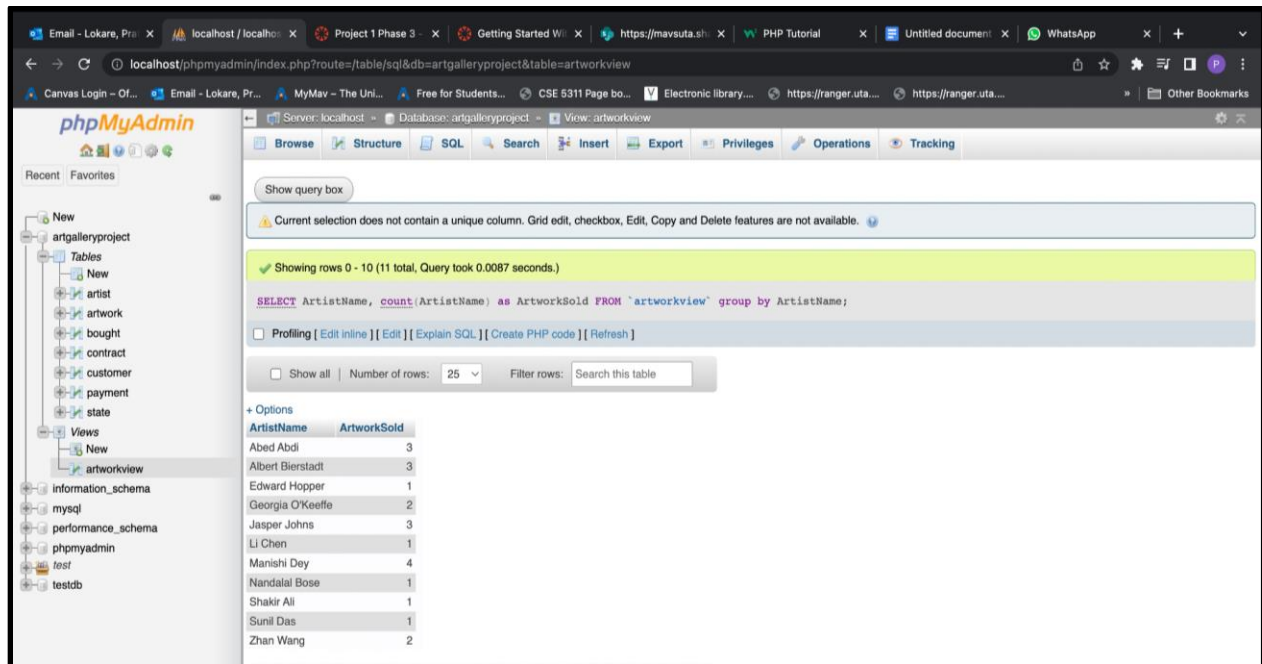
**Query** - `SELECT distinct ArtistName, ArtworkTitle, ArtworkPrice FROM `artworkview` WHERE ArtworkPrice > 250 and ArtworkPrice < 15000`

The screenshot shows the phpMyAdmin interface with the 'artworkview' table selected. The SQL query `SELECT distinct ArtistName, ArtworkTitle, ArtworkPrice FROM `artworkview` WHERE ArtworkPrice > 250 and ArtworkPrice < 15000;` has been executed, resulting in 7 rows of data. The results are displayed in a table with the following data:

ArtistName	ArtworkTitle	ArtworkPrice
Abed Abdi	Refugee Camp	12000.00
Abed Abdi	Palestinian Women	1700.00
Edward Hopper	Morning Sun	12000.00
Georgia O'Keeffe	Leaf Motif	350.00
Jasper Johns	Three Flags	11500.00
Nandalal Bose	Singawala	10000.00
Zhan Wang	Mirror Garden	10000.00

**QV5** Use the view ArtworkView to list the names of the artists and the total number of their art pieces sold so far at the gallery.

**Query** - SELECT ArtistName, count(ArtistName) as ArtworkSold FROM `artworkview` group by ArtistName



The screenshot shows the phpMyAdmin interface with the 'artgalleryproject' database selected. The 'artworkview' view is chosen from the left sidebar. The SQL query is entered in the 'SQL' tab, and the results are displayed in a table below.

ArtistName	ArtworkSold
Abed Abdi	3
Albert Bierstadt	3
Edward Hopper	1
Georgia O'Keeffe	2
Jasper Johns	3
Li Chen	1
Manishi Dey	4
Nandalal Bose	1
Shakir Ali	1
Sunil Das	1
Zhan Wang	2

**QV6** For all the artwork that were acquired on 9th September 1995 (1995-09-12), retrieve the name of the artist, his/her date of birth, the title of their artwork, sale date, customer name, and final payment date.

**Query** - SELECT artist.NAME AS ArtistName, artist.BIRTHDATE AS Bdate, artwork.TITLE AS ArtworkTitle, artwork.ACQUISITIONDATE AS acquisitionDate, bought.SALEDATE, customer.name AS CustomerName, payment.FINALDATE AS FinalPaymentDate FROM artist LEFT JOIN artwork ON artist.AID = artwork.AID LEFT JOIN bought ON artwork.ARTID = bought.ARTID LEFT JOIN payment ON artwork.ARTID = payment.ARTID LEFT OUTER JOIN customer ON customer.CID = bought.CID WHERE artwork.ACQUISITIONDATE = '1995-09-12';

The screenshot shows the phpMyAdmin interface for a database named 'artgalleryproject'. The 'Tables' section on the left lists 'artist', 'artwork', 'bought', 'contract', 'customer', 'payment', and 'state'. The 'Views' section lists 'artworkview'. The 'Tables' section is selected, and the 'artist' table is highlighted.

The SQL query displayed is:

```
SELECT artist.NAME AS ArtistName, artist.BIRTHDATE AS Bdate, artwork.TITLE AS ArtworkTitle, artwork.ACQUISITIONDATE AS acquisitionDate,
bought.SALEDATE, customer.name AS CustomerName, payment.FINALDATE AS FinalPaymentDate FROM artist LEFT JOIN artwork ON artist.AID = artwork.AID LEFT
JOIN bought ON artwork.ARTID = bought.ARTID LEFT JOIN payment ON artwork.ARTID = payment.ARTID LEFT OUTER JOIN customer ON customer.CID = bought.CID
WHERE artwork.ACQUISITIONDATE = '1995-09-12';
```

The query results show 12 rows. The columns are: ArtistName, Bdate, ArtworkTitle, acquisitionDate, SALEDATE, CustomerName, and FinalPaymentDate.

ArtistName	Bdate	ArtworkTitle	acquisitionDate	SALEDATE	CustomerName	FinalPaymentDate
Albert Bierstadt	1999-09-10	Mount Hood	1995-09-12	2021-09-12	Wu Ming	2021-09-12
Albert Bierstadt	1999-09-10	Buffalo Trail	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	Indian Spear Fishing	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	Sunset in the Rockies	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	Donner Lake	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	Bridal Veil Falls	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	A Rustic Mill	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	Street in Nassau	1995-09-12	2019-03-03	Dia Davidar	2019-03-03
Albert Bierstadt	1999-09-10	Gates of The Yosemite	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	California Spring	1995-09-12	NULL	NULL	NULL
Albert Bierstadt	1999-09-10	The Wolf River	1995-09-12	2018-02-02	Anil Desai	2018-02-02
Albert Bierstadt	1999-09-10	Mount Corcoran	1995-09-12	NULL	NULL	NULL

## References –

1. Fundamentals of Database Systems 7th edition by Elmasri and Navathe
2. <https://stackoverflow.com/questions/19774653/css3-for-html5-legend-inside-fieldset>
3. <https://www.w3schools.com/w3css/defaultT.asp>
4. <https://www.w3schools.com/php/>
5. <https://learnsql.com/blog/how-to-left-join-multiple-tables/>