



UNIVERSITY OF  
**TEXAS**  
ARLINGTON

Project Phase 3

## **Database Implementation for Arlington Art Gallery**

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## View Based Questions

**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.

Sol.

Show query box

✓ MySQL returned an empty result set (i.e. zero rows) (Query took 0.0341 seconds.)

```
CREATE VIEW ArtworkView AS SELECT artist.name AS ArtistName, artist.birthDate AS Bdate, artwork.title AS ArtworkTitle, artwork.form AS Form, bought.saleDate AS SaleDate, artwork.price AS ArtworkPrice, customer.name AS CustomerName, payments.finalDate AS FinalPaymentDate, artwork.acquisitionDate AS AcquisitionDate FROM artist JOIN artwork ON artist.aID=artwork.aID JOIN bought ON bought.artID=artwork.artID JOIN customer ON customer.cID=bought.cID JOIN payments ON payments.artID=artwork.artID WHERE artist.aID=artwork.aID ORDER BY artist.name;
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ Showing rows 0 - 21 (22 total, Query took 0.0044 seconds.)

SELECT \* FROM `artworkview`

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

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

+ Options

		ArtistName	Bdate	ArtworkTitle	Form	SaleDate	ArtworkPrice	CustomerName	FinalPaymentDate	AcquisitionDate
<input type="checkbox"/>	Edit Copy Delete	Abed Abdi	2000-01-01	Palestenian Women	painting	2021-08-08	1700	Nadia Hashimi	2021-08-08	2021-02-07
<input type="checkbox"/>	Edit Copy Delete	Abed Abdi	2000-01-01	Refugee Camp	painting	2021-07-08	12000	Shazadi Seraji	2021-07-08	2021-02-07
<input type="checkbox"/>	Edit Copy Delete	Abed Abdi	2000-01-01	Refugee Camp	painting	2021-07-08	12000	Mahbod Seraji	2021-07-08	2021-02-07
<input type="checkbox"/>	Edit Copy Delete	Albert Bierstadt	1999-09-10	Street in Nassau	print	2019-03-03	200	Dia Davidar	2019-03-03	1995-09-12
<input type="checkbox"/>	Edit Copy Delete	Albert Bierstadt	1999-09-10	Mount Hood	print	2021-09-12	200	Wu Ming	2021-09-12	1995-09-12
<input type="checkbox"/>	Edit Copy Delete	Albert Bierstadt	1999-09-10	The Wolf River	print	2018-02-02	200	Anil Desai	2018-02-02	1995-09-12
<input type="checkbox"/>	Edit Copy Delete	Edward Hopper	2000-01-20	Morning Sun	painting	2020-10-10	12000	Amitav Ghosh	2020-10-10	2020-07-02
<input type="checkbox"/>	Edit Copy Delete	Georgia O'Keeffe	1997-11-05	Jimson Weed	painting	2020-08-09	18000	Helon Habila	2020-08-09	2019-07-04
<input type="checkbox"/>	Edit Copy Delete	Georgia O'Keeffe	1997-11-05	Leaf Motif	print	2020-08-09	350	Ben Okri	2020-08-09	2011-07-11
<input type="checkbox"/>	Edit Copy Delete	Jasper Johns	1970-01-02	Map	painting	2020-12-10	19000	Randy Bradbury	2020-12-10	2018-12-12
<input type="checkbox"/>	Edit Copy Delete	Jasper Johns	1970-01-02	Three Flags	painting	2000-12-19	11500	Linda Steinbeck	2000-12-19	2000-12-12
<input type="checkbox"/>	Edit Copy Delete	Jasper Johns	1970-01-02	Three Flags	painting	2000-12-19	11500	Jay Steinbeck	2000-12-19	2000-12-12
<input type="checkbox"/>	Edit Copy Delete	Li Chen	2000-01-20	Twilight Breeze	painting	2020-07-07	15000	Ana Castillo	2021-01-01	2020-10-25
<input type="checkbox"/>	Edit Copy Delete	Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000	Mary Green	2021-08-08	2021-01-01
<input type="checkbox"/>	Edit Copy Delete	Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000	Scott Green	2021-08-08	2021-01-01
<input type="checkbox"/>	Edit Copy Delete	Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000	Harper Lee	2021-08-08	2021-01-01
<input type="checkbox"/>	Edit Copy Delete	Manishi Dey	1994-07-15	Musician	sculpture	2021-08-08	15000	Elena Lee	2021-08-08	2021-01-01
<input type="checkbox"/>	Edit Copy Delete	Nandalal Bose	1980-01-09	Singawala	painting	2020-08-09	10000	Tom Twain	2020-08-09	2017-07-02
<input type="checkbox"/>	Edit Copy Delete	Shakir Ali	1995-02-04	Bird	sculpture	2021-07-07	40000	Tahmima Anam	2021-07-07	2021-05-04
<input type="checkbox"/>	Edit Copy Delete	Sunil Das	1985-08-01	Blue Horse	sculpture	2020-07-07	20000	Maya Morrison	2020-07-07	1999-08-15
<input type="checkbox"/>	Edit Copy Delete	Zhan Wang	1999-03-03	Mirror Grden	sculpture	2018-09-10	10000	Cristina Fuentes	2018-09-10	2016-07-07
<input type="checkbox"/>	Edit Copy Delete	Zhan Wang	1999-03-03	Mirror Grden	sculpture	2018-09-10	10000	Carlos Fuentes	2018-09-10	2016-07-07

**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.

Sol.

Showing rows 0 - 1 (2 total, Query took 0.0054 seconds.)

SELECT DISTINCT ArtistName, CustomerName FROM artworkview WHERE ArtistName REGEXP "[aeiou].\*" AND CustomerName REGEXP "[aeiou].\*";

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

Show all

Number of rows: 25

Filter rows: Search this table

+ Options

ArtistName	CustomerName
Albert Bierstadt	Anil Desai
Edward Hopper	Amitav Ghosh

**Q3.** Use the view ArtworkView to retrieve a list of unique names of the artists whose artwork form is painting.

Sol.

Showing rows 0 - 5 (6 total, Query took 0.0029 seconds.)

SELECT DISTINCT ArtistName FROM artworkview WHERE Form='Painting';

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

Show all

Number of rows: 25

Filter rows: Search this table

+ Options

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

Sol.

✓ Showing rows 0 - 8 (9 total, Query took 0.0035 seconds.)

```
SELECT DISTINCT ArtistName, ArtworkTitle, ArtworkPrice FROM artworkview WHERE ArtworkPrice BETWEEN 250 AND 15000;
```

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

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

+ Options

ArtistName	ArtworkTitle	ArtworkPrice
Abed Abdi	Refugee Camp	12000
Abed Abdi	Palestinian Women	1700
Edward Hopper	Morning Sun	12000
Georgia O'Keeffe	Leaf Motif	350
Jasper Johns	Three Flags	11500
Li Chen	Twilight Breeze	15000
Manishi Dey	Musician	15000
Nandalal Bose	Singawala	10000
Zhan Wang	Mirror Garden	10000

**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.

Sol.

✓ Showing rows 0 - 10 (11 total, Query took 0.0055 seconds.)

```
SELECT ArtistName, COUNT(ArtistName) AS 'No. Of Artworks' FROM artworkview GROUP BY ArtistName;
```

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

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

+ Options

ArtistName	No. Of Artworks
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

**Q6.** For all the artwork that were acquired on 9th September 1995 (1995-09-12), retrieve the name of artist, his/her date of birth, the title of their artwork, sale date, customer name, final payment date.

**Sol.**

Showing rows 0 - 2 (3 total, Query took 0.0133 seconds.)

```
SELECT artist.name AS ArtistName, artist.birthdate AS Bdate, artwork.title AS ArtworkTitle, bought.saleDate AS SaleDate, customer.name AS CustomerName, payments.finalDate AS FinalPaymentDate FROM artwork,artist,bought,customer,payments WHERE artwork.aID=artist.aID AND artwork.artID=bought.artID AND artwork.artID=payments.artID AND customer.cID=bought.cID AND artwork.acquisitionDate= '1995-09-12';
```

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

Show all

Number of rows: 25

Filter rows: Search this table

+ Options

ArtistName	Bdate	ArtworkTitle	SaleDate	CustomerName	FinalPaymentDate
Albert Bierstadt	1999-09-10	Mount Hood	2021-09-12	Wu Ming	2021-09-12
Albert Bierstadt	1999-09-10	Street in Nassau	2019-03-03	Dia Davidar	2019-03-03
Albert Bierstadt	1999-09-10	The Wolf River	2018-02-02	Anil Desai	2018-02-02

Web Interface Questions

Home Page:

localhost/db\_artGallery/index.php

CURATION

CSE-5330 DATABASE SYSTEMS

Project Phase 3

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Customer Details Based On StateAdd State DetailsUpdate State DetailsDelete State DetailsState Details

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

Sol.

localhost/db\_artGallery/customerDetails\_state.php

Connection to the art gallery database is successful....!!

Home Page

Show 10 entries

Search:

name	street	city	stateAb	zipcode
Elena Lee	800 Preston Road	Gunter	TX	75058-0001
Harper Lee	800 Preston Road	Gunter	TX	75058-0001
Jay Steinbeck	1092 Old Kaufman Road	Kemp	TX	75143-0001
Linda Steinbeck	6400 Shortland Drive	Dallas	TX	75248-7405
Mahbod Seraji	1500 E Exchange Road	Allen	TX	75002-4504
Mary Green	150 Main Road	Gunter	TX	75058-0001
Maya Morrison	2018 N Travis Street	Sherman	TX	75090-0006
Nadia Hashimi	1405 Julian Street	Addison	TX	75001-4633
Randy Bradbury	1200 Speed Street	Marshall	TX	75670-0001
Scott Green	150 Main Road	Gunter	TX	75058-0001

Showing 1 to 10 of 14 entries

Previous 1 2 Next

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

Sol.

localhost/db\_artGallery/add\_state.php

stateAb: AA

stateName: Alaska

Submit

Search:

Home Page

localhost/db\_artGallery/state\_table.php

Connection to the art gallery database is successful....!!

Home Page

Show 10 entries

Search:

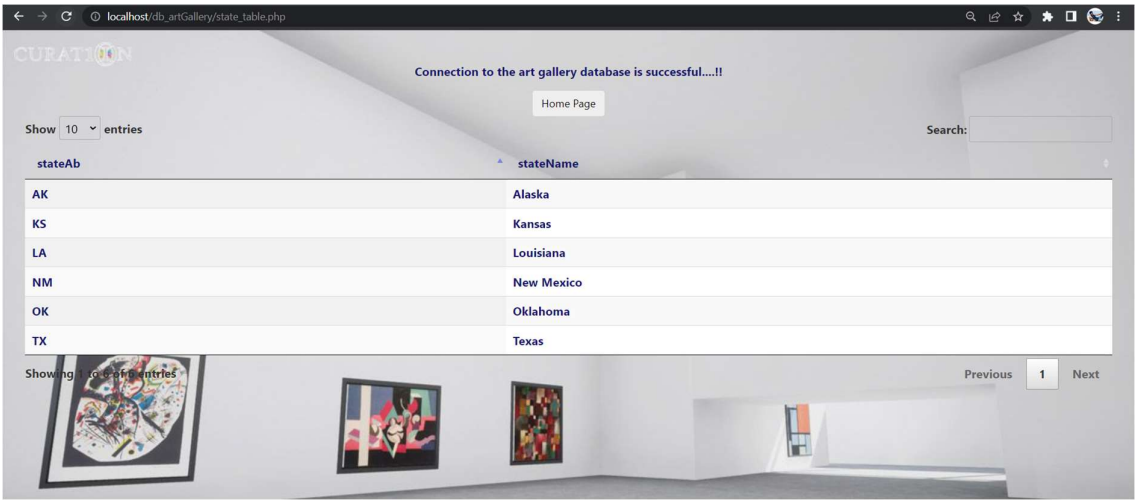
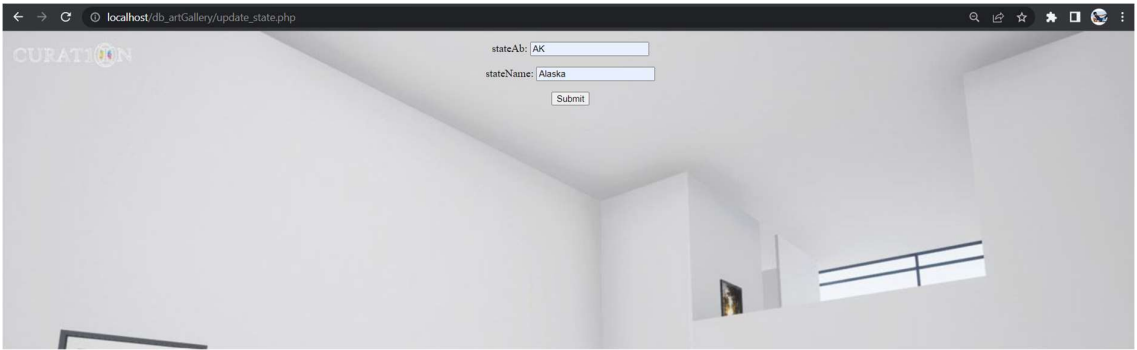
stateAb	stateName
AA	Alaska
KS	Kansas
LA	Louisiana
NM	New Mexico
OK	Oklahoma
TX	Texas

Showing 1 to 6 of 6 entries

Previous 1 Next

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

Sol.



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

**Sol.**

