CSE 3330 Project Phase 3 Fall 2021

Due Date: Nov 29, 11:59 PM, 2021.
Note: Include screen shots of the 1) user interface, 2) SQL statements 3) screenshots of their results, and 4) all technologies used (PHP/PYTHON/XAMPP etc. with version nos).

For project - phase 3 you are required to **create a web interface** that performs the given operations on the Art Gallery database created in the previous phase. You can implement the web interface **in any programming language you prefe**r. There are no bonus marks for CSS, however, students are encouraged to do so.

Along with this, you have to submit the solutions for the **view-based questions** mentioned below.

Create a web interface and perform the following operations through the interface and display appropriate results.

Q1. Display the Artist details based on any one of the following: name, city, and commission.

Q2. Insert a new artist "Rahim DograN", in the ARTIST table in the database. You should insert values for all the attributes in the ARTIST table. Link the new artist with the state of Texas in the states table.

Q3. Update the artist name 'Nandalal BoseD' to 'Nandalal Bose' in the ARTIST record that you just added.

Q4. Delete the artist record that **you just added** to the database.

View-based questions:

Note: Include SQL statements and screenshots of their results for each question

QV1 Create a view **ArtworkInfo** that has the following attributes:
AcqYear (the year the artwork was acquired by the art gallery), **AcqMonth** (the month, the artwork was acquired by the art gallery - January, February etc.), **ArtistName** (name of the artist), **DOB** (Artis's birthDate), **ArtistState** (State where the artist lives), **Title** (title of the artwork), **Form** (form of the artwork – painting/sculpture etc.), **ArtworkPrice** (Price of the artwork), **creationDate** (the date when the artwork was created), **AcquisitionDate** (the date the artwork was acquired by the), **UpfrontDate** (the date the first payment is made to the artist), **SaleDate** (the date of the sale of the artwork – **null** value if the artwork is not sold), **FinalDate** (the date the artist receives the final payment after the sale of the artwork- null value if artwork is not sold), **CustomerName** (Name of the customer(s) who bought the artwork **- null value** if the artwork is not bought), **CustomerState** (the state where the customer lives). Use the tables as needed.

The records should be **sorted by** the **AcqYear**, **AcqMonth** month (March, April, May, … and **NOT** alphabetically by month name- April, March, May, ..), and **the ArtistName**.

Note: Write a sql statement to fetch all records from the view ArtworkInfo. Include the screenshot of the result set.

QV2 Use the view **ArtworkInfo** to list the names of the artists, their state, customer name, and the customer state for artists whose artwork has been bought by a customer who lives in a state other than where the artist lives.
Write a query to **verify that your list** of Artist names is correct

QV3 Use the view to list the names of artists and the **number of customers they have so** far. Sort the result by the artist name.

QV4 Use the view to list the names of artists and the **number of artworks they have so** far **available** in the Art Gallery.

QV5 Use the view **ArtworkInfo** to list the names of the artists along with the number of artworks, minimum, and maximum price of their artwork.

How can you verify that your results are correct?

QV6 Use the view **ArtworkInfo** to list the names of the artists along with the artwork titles and the number of owners if the artwork was owned by more than 1 customer.

QV7 Use the view **ArtworkInfo** to list the names of the artists and the artwork titles if the artwork was owned by only 1 customer.

Submission Instructions:

- A demo will be scheduled for this phase web interface. Each team member should be present for the demo.

- **Queries/SQL Create Statements** should be submitted along with the **proof of the results** (screenshots) of the execution for each query for the given view-based problems.

Due Date: Check the Syllabus.

You should turn in a zipped folder containing all scripts, a readme file, and a pdf file with view-based queries and proofs/results. Please do not submit files separately.

- If you are doing the project in a team of two, only one team member should submit the zipped folder.

- Clearly specify team members' names and student ids in the headers of your codes

- File naming convention: <NetId1>_<NetId2>_phase3.zip

- All students are required to include and sign the honor code in a separate file (in the zipped folder). Failing to do so will cost – 20 points, however, no bonus for the honor code will be provided.

- Students are required to not share any of the project-related documents and solutions with others in any form, even after completion of the project and course. Students may, however, show their projects to the interviewers.

- Sharing the project description and/or its solution with others or anywhere on the web or in any way will result in a zero for all who are involved in it. The grades will be changed to zero retroactively if such an incident is discovered after the semester is over.

- Late Policy: -5% for each late day

- A **hand-signed and dated** copy of the **handwritten** Honor Code shown below should be included in every submission. (Failing to add it will cost 20 points)

- HONOR CODE

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or that I contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code

I will not participate in any form of cheating/sharing the questions/solutions.