

22.2 Data Base Management Systems - Group Assignment

Guidelines:

- Group members: 05-06 per group
 - **Assign your group** members to the given link in NLearn **before 28th Feb 2023**.
 - Submission deadline: 27th March 2023 23.59 pm.
 - Deliverables: Add required screenshots to the report. Submit a zip file including the report and the database files, to the link in NLearn. Only one member should submit the assignment on behalf of the group.
 - The submission file name should be ***“DB_Lecture group name_Assignment group no.zip”***. E.g.: ***“DB_Group A_Group 01”***
 - Email submissions will not be accepted for any reason.
 - Late submissions are accepted for a 30-minute grace period and will get 10% penalty marks. After that period, the submission link will be closed.
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Assignment scenario:

The Gill Art Gallery wishes to maintain data on their customers, artists and paintings. They may have several paintings by each artist in the gallery at one time. Paintings may be bought and sold several times. In other words, the gallery may sell a painting, then buy it back later and sell it to another customer.

Given below is a sample of a form used to gather the customer history at the gallery. With related to this form answer following question.

1. Create an ER diagram to show the entities, attributes, and relationships between attributes of this scenario.
2. Design the relational database related to this scenario which its tables are in the 3NF (You can display the database schemas for your answer).
3. Develop a database to show the tables identified in question 02 using MySQL.
4. Run MySQL queries to perform following actions;
 - a. Add 05 new customers to the database (customer numbers should below 10).
 - b. Select all customers whose Customer Number is less than 05.
 - c. Display painting IDs of paintings which sales price is between 1000 and 5000.
 - d. Delete the artist “Dennis Fringes”.
 - e. Select paintings where purchase date<12/31/2002 and sales price>1500.

Gallery Customer History Form

Customer Number: 10

Jackson, Elizabeth
123 – 4th Avenue, Fonthill, ON, L3J 4S4

Phone (206) 284-6783

Purchases Made

Artist	Painting	Purchase Date	Sales Price
03 - Carol Channing	50 - Laugh with Teeth	09/17/2000	7000.00
15 - Dennis Frings	65 - South toward Emerald Sea	05/11/2000	1800.00
03 - Carol Channing	43 - At the Movies	02/14/2002	5550.00
15 - Dennis Frings	65 - South toward Emerald Sea	07/15/2003	2200.00
