



YESTERDAY...

How do we add new information to a database?

How do we update information in a database?

How do we delete information in a database?

Should we delete information from a database?

What are transactions?

Databases: Let's build one!





Gallery Customer History Form Customer Name Phone (206) 284-6783 Jackson, Elizabeth 123 – 4th Avenue Fonthill, ON L3J 4S4 Purchases Made Artist Title Purchase Date Sales Price 03 - Carol Channing Laugh with Teeth 09/17/2000 7000.00 15 - Dennis Frings South toward Emerald Sea 05/11/2000 1800.00 03 - Carol Channing At the Movies 02/14/2002 5550.00 15 - Dennis Frings South toward Emerald Sea 07/15/2003 2200.00

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 at a later date and sell it to another customer.



NORMALIZATION

Normalization is the process of organizing a database to eliminate duplicate and null values



DATABASE DEFINITION LANGUAGE

Create/Drop Database:

CREATE DATABASE database_name; DROP DATABASE database_name;

Create Table

CREATE TABLE table_name (column_name1 data_type(size), column_name2 data_type(size) NOT NULL, column_name3 data_type(size), CONSTRAINT pk_column_1 PRIMARY KEY (column_name1), CONSTRAINT fk_column_2 FOREIGN KEY (column_name2) REFERENCES table_name(column_1));

Drop Table

DROP TABLE table name



DATABASE SUGGESTIONS

Changing database much harder than changing code We want to represent gender, should we use a bit?



LET'S CODE!





WHAT QUESTIONS DO YOU HAVE?



