

Unit 7: Homework

1. Create the relevant database relations by decomposing the following entity into its constituent tables by applying the database normalization techniques.

Gallery Customer History Form			
Customer Name			
Jackson, Elizabeth		Phone (206) 284-6783	
123 – 4 th 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.

UNF:

customer [custno, cust_name, cust_addr, cust_phone, (artist_id, artist_name, art_title, pur_date, price)]

1NF:

customer [custno, cust_name, cust_addr, cust_phone]

purchase_artist [custno, artist_id, artist_name, art_title, pur_date, price]

2NF:

customer [custno, cust_name, cust_addr, cust_phone]

purchase_artist [custno, artist_id, art_title, pur_date, price]

artist [artist_id, artist_name]

3NF:

customer [custno, cust_name(FK)]

purchase_artist [custno(FK), artist_id(FK), art_title, pur_date, price]

artist [artist_id, artist_name]

customer_info [cust_name, cust_street, cust_city, cust_pstlcd, cust_phone]

2. In addition to this assignment, submit the completed In-class Exercise #2 from Unit 7 as a part of your homework.

UNF:

Pet [pet_id, pet_name, pet_type, pet_age, owner, (visitdate, procedure_no, procedure_name)]

1NF:

Pet [pet_id, pet_name, pet_type, pet_age, owner]

Visit [visitdate, procedure_no, procedure_name]

2NF:

Pet [pet_id, pet_name, pet_type, pet_age, owner]

Visit [visitdate]

Procedure [procedure_no, procedure_name]

3NF:

Pet [pet_id, owner_id(FK), pet_name, pet_type, pet_age]

Visit [visitdate, procedure_no(FK)]

Procedure [procedure_no, procedure_name]

Owner_info[owner_id, owner]