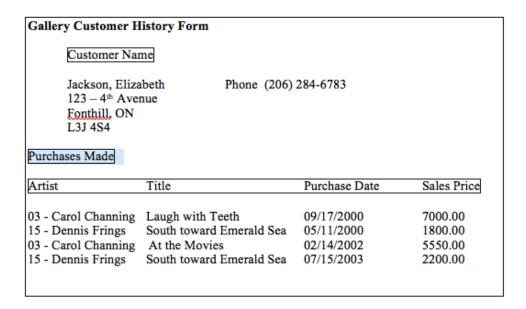
Unit 7: Homework

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



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 [<u>custno</u>, 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 [precedure_no, procedure_name]

3NF:

Pet [pet id, owner id(FK), pet_name, pet_type, pet_age]
Visit [visitdate, procedure no(FK)]
Procedure [precedure_no, procedure_name]
Owner_info[owner_id, owner]