WMCS16001.2017-2018.1B Information Systems

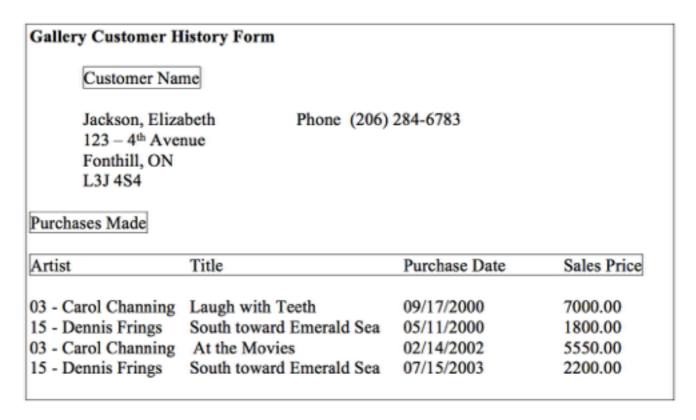
Relational Databases Management Systems Normalisation, Triggers, Stored Procedures and Functions

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Case 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 at a later date and sell it to another customer.



Considering the unnnormalized schema

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

Tasks

- Normalize the schema up to the third normal form and create it in postgresql. For each table, indicate the primary and foreign keys. Provide the scripts to generate the schema.
- 2. Create triggers (and procedures/functions if necessary) in the appropriate tables to set to uppercase the customer and the artists' names with every insert or update.
- Create triggers to avoid transactions outside the 09:00h -17:00h office hours