CSC343 Worksheet 1

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Note: This is student designed study guide to make learnings easier. This does not reflect the course material. Please take it only as a reference.

1. **Exercise 2.2.1:** In fig 2.6 are instances of two relations that might constitute part of a banking exercise. Indicate the following

acctNo	type	balance
12345	savings	12000
23456	checking	1000
34567	savings	25

The relation Accounts

firstName	lastName	idNo	account
Robbie	Banks	901-222	12345
Lena	Hand	805-333	12345
Lena	Hand	805-333	23456

The relation Customers

Figure 2.6: Two relations of a banking database

  a) The attributes of each relation

  b) The tuples of each relation

  c) The components of one tuple from each relation

  d) The database schema

  e) A suitable domain for each attribute

  f) Another equivalent way to present each relation

2. **Exercise 2.2.2:** In section 2.2.7 we suggested that there are many exmaples of attributes that are created for the purpose of serving as keys of relations. Give some additional examples.

3. **Exericse 2.3.1** In this exercise we introduce one of our running examples of a relational database schema. The database schema consists of four relations, whose schemas are:

```
Product(maker, model, type)
PC(model, speed, ram, hd, price)
Laptop(model, speed, ram, hd, screen, price)
Printer(model, color, type, price)
```

Reference

1) Stanford: CS145 - Introduction to Databases, link