**CST2355 — Database Group Lab Assignment 2 Proposal**

For this assignment, we chose to modify the previous assignment’s database, which was an application for a tool rental service.

As a refresher of the database’s relationships, customers are **related-to** orders; each order **contains** an order-line and each order-line **contains** tools. Each tool **is-a** ‘type’ of tool (for example, wrench, screwdriver, hammer, chainsaw, powerdrill, etc.). Each tool has a recorded previous model (**hierarchical**).

The fields we decided to convert into **historical fields** are the **rental prices** of the **tools (part of an is-a relationship)**, the **return dates** of the **orders (part of a contains relationship)** and the **phone numbers** of the **customers (part of a related-to relationship)**.

Cardinalities:

* A customer can have many orders but an order can only belong to one customer.
* An order can have many order-lines but a given order-line will only belong to one order.
* Each order-line will only have one tool listed, but a single tool can be found on many order-lines.
* A tool can have one tool type but a tool type can be attributed to many tools.
* A tool can have one current rental price but the rental price can be changed many times
* An order can have one current return date but the return date can be changed many times
* A customer can have one current phone number but a phone number can be changed many times