**Data Formatting**

Customer:

* Email: max 36 chars, XXXXXX@XXXX.XXX
* Password: max 20 chars   Example : qwerty
* Name: First Name: max 25 chars; Last Name: max 40 chars
* Home Phone: 10 numeric chars, (ddd)ddd-dddd
* Work Phone: 10 numeric chars, (ddd)ddd-dddd
* Address: max 50 chars

Clerk:

* Login Key: max 16 chars
* Password: max 20 chars
* Name: First Name: max 25 chars; Last Name: max 40 chars

Reservation:

* Reservation Number: int
* Date: Start Date: ‘MM-DD-YYYY’; End Date: ‘MM-DD-YYYY’
* Total Rental Price: float
* Total Deposit: float

Picks up:

* Credit Card Details: Card Number: 16 numeric chars, dddd-dddd-dddd-dddd; Expiration Date: ‘MM/YY’

Tool:

* Tool ID: int
* Abbreviated Description: max 25 chars
* Full Description: max 300 chars
* Original Purchase Price: float
* Daily Rental Price: float
* Deposit Amount: float

Power Tool:

* Accessories: multi-value with max 25 chars, each

Service Order:

* Date: Starting Date: ‘MM-DD-YYYY’; Ending Date: ‘MM-DD-YYYY’
* Estimated Repair Cost: float

**Constraints**

* End date should be after start date.
* Original purchase price, daily rental price and deposit amount of a tool should be positive.
* A tool is available for rental only if it isn’t reserved or being repaired from start date to end date.
* A user is allowed to rent up to 50 tools per reservation.
* The total rental price of a reservation is calculated as the sum of the rental prices for all tools rented, multiplied by the number of days over which they are rented.
* The total deposit price of a reservation is the sum of the deposits required for each individual tool.
* A service order cannot be placed over an existing reservation.
* Estimated repair cost should be positive.