1 Introduction Customers use an online ordering system to place tools rental orders, and each order is tracked by a different order number. After placing an order, the store will receive the order and start preparing accordingly. An invoice will be provided to the customer that includes store information, rental number, customer information, tools details. In the system, some other information will be able to be tracked including rental reservation and rental transaction.

For Tool rental management:

Tools category table and Tools Detail table are is-a. Each tool belongs to one category. Inventory table contains transaction table. Then our company can only lend the tools in stock to the customers and make a deal. Reservation table is related to inventory table. If a tool is out of stock in inventory, customers are not able to make reservations.

Table

(1) Customer: Name, phone number, address, email address

(2) Inventory: Tool ID, quantity, status

(3) Tools Category: plumbing, carpet Cleaner, lawn and garden, Cutting & Concrete…

(4) Tools Detail: tool name, size, quantity, price

(5) Rental Reservation: Customer ID, order date, customer request

(6) Rental Transaction: order ID customer name, invoice

Relationships:

(3) & (4): “is-a”

(2) & (6): “contain”

(2) & (5): “related to”

(1) & (5): “Hierarchy”

Section 2: Group Membership and Tasks: