

# Problem 1

(sales order Number, Sales order date, clerk Number, Clerk Name, Customer Number, Customer Name, Customer Address, Item ordered, Description, quantity, Unite Price, Total)

## 1<sup>st</sup> Normal form:

(sales order Number, Sales order date, clerk Number, Clerk Name, Customer Number, Customer Name, Customer Address)

(sales order Number, Item ordered, Description, quantity, Unite Price, Total)

## 2<sup>nd</sup> Normal form:

(sales order Number, Sales order date, clerk Number, Clerk Name, Customer Number, Customer Name, Customer Address)

(sales order Number, Item ordered, quantity, Unite Price, Total)

(Item ordered, Description)

## 3<sup>rd</sup> Normal form:

(sales order Number, Sales order date, clerk Number, Customer)

(clerk Number, Clerk Name)

(Customer Number, Customer Name, Customer Address)

(sales order Number, Item ordered, quantity, Unite Price, Total)

(Item ordered, Description)

# Problem 2

Dept#, Dept Name, Location, Mgr Name, Mgr ID No, Tel Extn, Cust#, Cust Name, Date of Complaint, Nature of Complaint

## 1<sup>st</sup> Normal form:

(Dept#, Dept Name, Location, Mgr Name, Mgr ID No, Tel Extn)

(Dept#, Cust#, Cust Name, Date of Complaint, Nature of Complaint)

## 2<sup>nd</sup> Normal form:

(Dept#, Dept Name, Location, Mgr Name, Mgr ID No, Tel Extn)

(Dept#, Cust#, Date of Complaint, Nature of Complaint)

(Cust#, Cust Name)

## 3<sup>rd</sup> Normal form:

(Dept#, Dept Name, Location, Mgr ID No, Tel Extn)

(Mgr Name, Mgr ID No)

(Dept#, Cust#, Date of Complaint, Nature of Complaint)

(Cust#, Cust Name)