1. Relational Database Schema Diagram

Customer:

Phone

Name

Address

Branch:

Name

BrNo

Phone

Address

Order:

Name

Date

OrderNumber

Amount

Sub-Order:

ReqShipdate

ActShipDate

Phone

SubOrderNo

OrderNumber

Employee:

Classification

Salary

Address

BirthDate

EmpNo

Name

Paper:

UnitPrice

Weight

TypeNo

Size

Order item:

Quantity

TypeNo

OrderNumber

SubOrderNo

Handled\_By:

OrderNumber

EmpNo

2. [Used Suggested ER Diagram]

**CUSTOMER**

Name – VARCHAR Primary Key

Phone – INTEGER Unique

Address – VARCHAR

**BRANCH**

Name – VARCHAR Not Null

Phone – INTEGER Primary Key

BrNo – INTEGER Not Null

Address – VARCHAR

**FOREIGN KEY** (Name) **REFERENCES** CUSTOMER (Name)

**ORDER**

Name – VARCHAR Not Null

OrderNo – INTEGER Primary Key

Date – DATE

Amount – DECIMAL

**FOREIGN KEY** (Name) **REFERENCES** CUSTOMER (Name)

**SUB-ORDER**

OrderNumber – INTEGER Primary Key

SubOrderNo – INTEGER Primary Key

ActShipdate – DATE

ReqShipDate – DATE

Phone – INTEGER

**FOREIGN KEY** (OrderNumber) **REFERENCES** Order(OrderNumber)

**EMPLOYEE**

EmpNo – INTEGER Primary Key

Name – VARCHAR

Address – VARCHAR

Birthdate – DATE

Classification – CHARACTER

Salary – DECIMAL

**PAPER**

TypeNo – INTEGER Primary Key

Size – INTEGER Not Null

Weight – DECIMAL

UnitPrice – INTEGER

**ORDER ITEM**

OrderNumber – INTEGER Primary Key Not Null

SubOrderNo – INTEGER Primary Key Not Null

TypeNo – INTEGER Primary Key Not Null

Quantity – INTEGER

**FOREIGN KEY** (OrderNumber, Sub-Order) **REFERENCES** Sub-Order (OrderNumber, Sub-Order)

**FOREIGN KEY** (TypeNo) **REFERENCES** Paper (TypeNo)

**HANDLED-BY**

OrderNumber – INTEGER Not Null

EmpNo – INTEGER Not Null

**FOREIGN KEY** (OrderNumber) **REFERENCES** Order (OrderNumber)

**FOREIGN KEY** (EmpNo) **REFERENCES** Employee (EmpNo)