Assignment 10 Solutions

Question 1:

1) Item(itemNo, itemDesc)

Order(orderNo, custNo, ItemNo, LineNo, qtyOrdered, qtyOutstanding, plantNo, ReorderPoint, qtyOnHand, orderDate)

CustInfo(custNo, custBal, custDiscount, shipAddr)

2) Item(itemNo, itemDesc)

Customer(custNo, custBal, custDiscount, shipAddr)
OrderLine(LineNo, ItemNo, qtyOutstanding, qtyOnHand, plantNo)

Order(orderNo, lineNo, orderDate, qtyOrdered)

Question 2:

- (voyageID, shipName, date, port)
 (voyageID, shipName, date)
 (voyageID, shipName, port)
- 2) Ship(shipName, shipType) Shipping(shipName, voyageID, date, port, cargo)
- 3) Ship(shipName, shipType) Cargo(shipName, voyageID, date, cargo) Shipping(shipName, voyageID, date, port)

Question 3:

1NF:

It is in the 1NF

PK is (partNumber, supplier)

Functional Dependencies:

partNumber, supplier -> description, supplierAddress, price
partNumber -> description
supplier -> supplierAddress

partNumber, supplier, description -> supplierAddress, price partNumber, supplier, description, supplierAddress -> price partNumber, supplier, supplierAddress -> description, price

2NF:

Part(partNumber, description)
Supply(partNumber, supplier, supplierAddress, price)

<u>3NF:</u>

Part(partNumber, description)
Supplier(supplier, supplierAddress)
Supply(partNumber, supplier, price)