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Part A

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Description automatically generated with medium confidence

1. No. The CustOrder relation (Cust\_Order table) does not have a composite primary key.

2. Key Attribute is OrderNo in Cust\_Order.

3. Non-Key Attributes are OrderDate and CustNo in Cust\_Order.

4.No . CustNo and OrderDate are both not uniquely depends to the OrderNo. 1 CustNo is corresponding to more than 1 OrderNo abd so do the OrderDate.

5. There is no only 1 PK attribute determines the non-key attributes.

CustNo might not necessarily be determined by OrderNo because a customer can place multiple orders.

OrderDate might not necessarily be determined by OrderNo because each date could have more than 1 order.

Part B

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Description automatically generated

In the following table:

Customer [ CustNo, CustName, RepNo, RepName ]  
CustOrder [ CustNo, OrderNo ]   
Order [ OrderNo, Orderdate ]

1. Examine each of the 2NF relations and determine the following:
   1. Customer relation:
      1. Key attributes: CustNo
      2. Non-key attributes: CustName, RepNo, RepName
   2. CustOrder relation:
      1. Key attributes: CustNo, OrderNo
      2. Non-key attributes: Null (every attribute are one part of Key)
   3. Order relation:
      1. Key attributes: OrderNo
      2. Non-key attributes: OrderDate

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Description automatically generated

Yes.

RepName is determined by RepNo.

1. REP [ RepNo, RepName ]
2. CUSTORDER [ CustNo, OrderNo ]   
   ORDER [ OrderNo, Orderdate ]   
   CUSTOMER [CustNo, CustName, FK RepNo]  
   REP [RepNo, RepName]

A table with numbers and letters

Description automatically generated  
UNF:

Order [CK **OrderNo,** Orderdate, CustNo, CustLname, (PartNo, PartDesc, QtyOrd, Price)]

1NF:  
Order [ **OrderNo, PartNo** ,Orderdate, CustNo, CustLname, PartDesc, QtyOrd, Price]

2NF:  
Order [ **OrderNo** ,Orderdate, CustNo, CustLname]

PartDetail [ **PartNo** , PartDesc]

Order Detail [ **OrderNo, PartNo**, QtyOrd, Price]

3NF:

Order [ **OrderNo** ,Orderdate, CustNo]

Custom[**CustNo**, CustLname]

PartDetail [ **PartNo** , PartDesc]

Order Detail [ **OrderNo, PartNo**, QtyOrd, Price]