Is the following table in BCNF and why? If not, please use appropriate procedure to fix it (note each order is made by one and only one customer):   
  
Customer ID, Customer Name, Customer Address, Order ID, Order Date, Expected Date, Order Amount

No, it is not in BCNF because it is not in 3NF, which is a requirement for BCNF.  
  
Functional Dependencies:  
Customer ID -> Customer Name, Customer Address  
Order ID → Order Date, Expired Date, Order Amount  
Customer ID does not determine Order ID since each order will only have one customer.

3NF:

Table is already in 2NF since all attributes are functionally dependent on a key.  
  
The table must have no transistive dependencies.  
The transistive dependency here is between customer ID and Order-related fields. Since customer ID determines order ID and order ID determines order related attributes there is a transistive dependency.  
  
To fix 3NF:  
  
Customers:  
Customer ID, Customer Name, Customer Address

Orders:  
Order ID, Order Date, Expected Date, Order Amount  
  
Now, the tables are in 3NF, and since X is a superkey for every dependency, it is also in BCNF.

2) Write SQL Statements: