1.	What are the possible advantages of using distributive processing in a database system environment?		
2.	What are the problems that can be experienced from having non-normalized files in a DBS?		[08]
3.	Relation R $\{A, B, C, \ldots K\}$ is in 1NF only. The following FDs hold:  a) Primary key is (ABC)  b) $A \rightarrow D$ c) $B \rightarrow E$ d) $F \rightarrow G,H,I$ e) $J \rightarrow B$ f) $K \rightarrow C$ g) $(AF) \rightarrow J/K$ By repeatedly using Heath's or Fagin's theorems, decompose R into a set of 5NF relations. Show how the new relations will be keyed.		
4.	Item Number [ITM#] Item Last Price [ITMLP] Item Average Price [ITMAP] Category Description [CTGDES] Order# [ORD#] Item Ordered [ORDITM] Order Status [ORDSTS] Receipt Date [RCVDATE] Quantity Received [RCVQTY] Requisition Date [RQSDATE] Department Requesting [RQSDEPT] Requisition Honor Date [RQSHDATE] Issuance Number [ISS#] Item Issue Price [ISSPRC]	Item Name [ITMNAME] Item On Hand Quantity [ITMQOH] Item Category Code [ITMCTG] Item Supplier [ITMSPLR] Order Date [ORDDATE] Quantity Ordered [ORDQTY] Invoice Number [INV#] Item Received [RCVITM#] Invoice's Related Order [INVORD#] Requisition Number [RQS#] Issuance Date [ISSDATE] Quantity Issued [ISSQTY] Item Issued [ISSITM] Department Receiving the Issue [ISSDPT]	system:
Group the attributes into related entities. Then for each entity, identify the FDs, and then normalize it. Grade v be assigned as follows:			
	4.1 Identification of all possible FDs.		[11]
4.2 Putting the elements into normalized relations. You may introduce elements as required with approprie explanation.			

Construct an ERD representing the case with its normalized relations.

4.3

**Total Possible Points: 114** 

Sample Assignment 3B

Elvis C. Foster

[30]

Database Systems: a Pragmatic Approach