Question

17	17 A library uses a <i>flat file</i> database to store details about members and							
	the books they borrow. Here is part of the file.							
	Mer	nbership	Member	Telephone	Book	Book Title	Date	
		d ID	Name		Reference		Borrowed	
	KP102 KP982 KP102 KP982 KP982 KP345		Mary Smith	987265	BK234	Emma	12/3/09	
			James Main	967364 978265	BK287	The Green Mile	12/3/09	
			Mary Smith Jimmy Main	978265	BK290 BK205	Pride and Prejudice Blaze	02/4/09 14/4/09	
			James Main	967364	BK106	The Dark Tower	21/4/09	
			Jo Jones	911235	BK287	The Green Mile	15/5/09	
	A flat file database has a number of limitations. The same data is often entered several times. This duplication of data can lead to inconsistencies such as data being entered differently or incorrectly.							
	(a) Explain what is meant by the term "flat file database".							1
Answer DB 3.3	All data held in one table							KU
	(b)	(b) From the table above, give one example where data is duplicated.						
Answer DB 3.3	 BK287 The Green Mile KP102 Mary Smith KP982 967364 							PS
	(c)	(c) James Main cannot remember which books he has borrowed from the library. The librarian enters the query "James Main" into the Member Name field.						
		(i)	Explain what is meant by a "query".					
Answer DB 5.2		Processes (searching and/or sorting) carried out to extract information from a file						KU
		(ii) Explain why this query for James Main will not show all the information about books he has borrowed using his membership card.						1
Answer DB 3.3		 Jimmy Main and James Main are the same person Only finds James Main's loans, not Jimmy Main's yet they have the same membership card ID 						PS
		(iii)	State a query that would find all the books borrowed by James Main.					1
Answer DB 3.3		 Query Membership Card ID field for KP982. Query Member name = James Main OR Member name = Jimmy Main 						
	Total marks for Section 2							(30)

[END OF SECTION 2 - PART A]