1995 Paper 12 Question 9

Databases

What forms of error do database normal forms seek to render less probable? [3 marks]

Define Second Normal Form.	[3 marks]
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Define Fourth Normal Form.

Give an example of a database schema that is in 2NF form but not in 4NF, showing how it is possible for mutually contradictory data to be recorded. Explain your assumptions about the semantics underlying the database schema. [7 marks]

Are there applications where normal forms are unnecessary or even unhelpful? [3 marks]

[4 marks]