

1998 Paper 7 Question 8

Database Topics

Describe the main features of the Data Language DAPLEX, paying particular attention to the following points:

- (a) schema definition and maintenance
- (b) primitive and derived data
- (c) entity specialisation
- (d) consistency constraints

[9 marks]

Explain how aggregates are handled in DAPLEX, paying particular attention to the following:

- (e) composition of many-valued functions
- (f) calculation of averages
- (g) inverse functions
- (h) multiple inheritance

[7 marks]

The DAPLEX paper received a great deal of attention when it appeared in 1981. Why do you think that was, and why is the work largely forgotten today?

[4 marks]