

# **AQA Computer Science A-Level**

## **4.11.1 Big Data**

### **Past Paper Questions**

## Additional Specimen Paper 2

0 | 7 |

One characteristic of a data set that might result in it being classified as Big Data is that it contains a very large volume of data.

0 | 7 | . | 1 |

Describe **two** other characteristics that might also result in a data set being classified as Big Data.

**[2 marks]**

Characteristic 1

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Characteristic 2

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0 | 7 | . | 2 |

Big data is usually processed using parallel or distributed computer architectures.

Explain why functional programming is one appropriate method to use when this is the case.

**[2 marks]**

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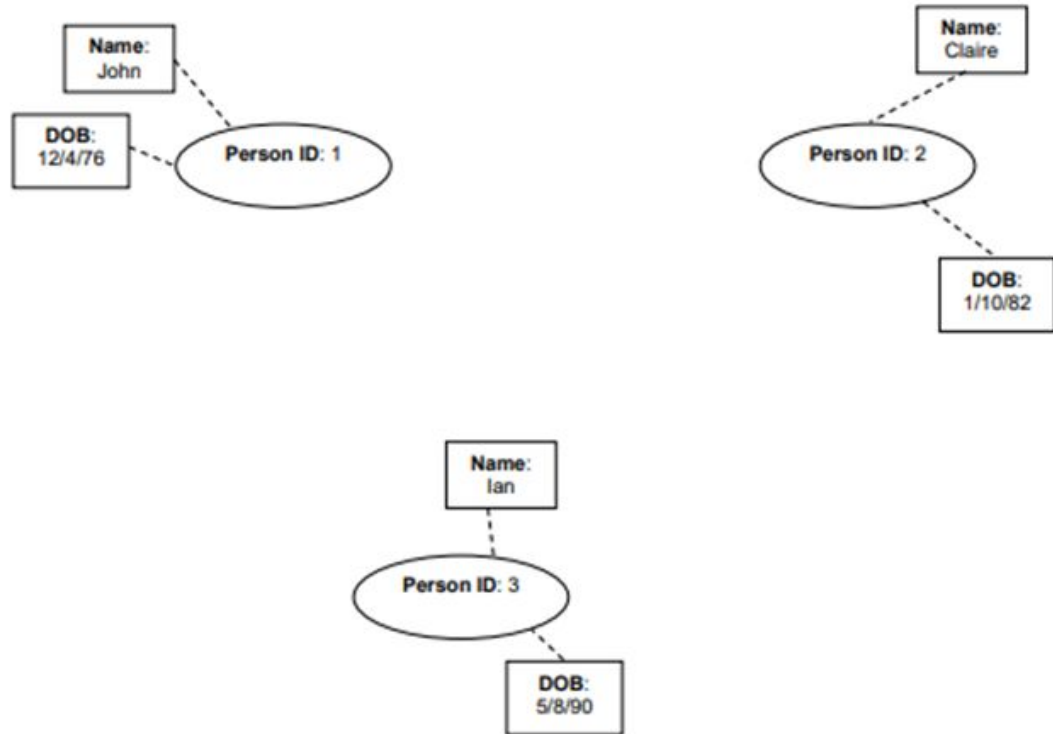
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07 . 3 Big Data can be represented using graph schema. Figure 6 shows part of a graph schema for employees of a company.

Figure 6



Complete the graph schema to represent the following facts:

- John and Ian both work for the Finance department.
- Claire works for the HR department.
- Ian is John's manager.
- John also has the extra role of First Aider.
- Ian and Claire are married.

[3 marks]

