# Big Data Questions

1. What is a Fact?
2. What do Nodes of a Graph Scheme Represent?
3. What do Edges of a Graph Scheme Represent?
4. Where should you draw properties of a Graph based schema?
5. Big Data is usually processed using parallel or distributed computer architectures. Explain why Functional Programming is one appropriate method is to use when this is the case.
6. Open up the Whiteboard in Microsoft Teams Assignment. Add the following information to the Graph Based Scheme.
   1. Jack and Jill both live at a House with the address 123 Fake Street.
   2. Ian works in a Shop called “News”
   3. Jack and Jill are brother and sister.
   4. Jack and Ian are married.
      1. Is there an extra relationship you could add between Ian and Jill as well?
   5. Jill died on the 4th January 2021

**Long Answer Question [12 Marks]**

A Bank uses a large database to store all customer transactions. The bank is growing larger and can no longer fit all of their data on one server. They currently use a relational database and query it with SQL commands.

The performance is becoming unsatisfactory; this is causing time-delay for their customers. Explain how the banks transactions data could be counted as big data.

Then compare Graph Based and Fact Based Schemes in context of the bank and make a suggestion to the bank about which Scheme they should follow.