**01**

**a. What is NoSQL? Discuss and differentiate between the relational model and the aggregate model.**

**b. Which data model does not support aggregate orientation? Explain the model with a suitable diagram.**

**c. Define key-value stores and explain the differences between key-value and document data models.**

**02  
a. Describe with an example how column family stores data in the aggregate structure.**

**b. Explain briefly how impedance mismatch occurs in the relational model, and what are some common solutions to address it?**

**c. What are materialized views, and how do they differ from relational views in terms of data access? What strategies are used to build materialized views?**