# Tutorial 1: Review question

1. If the layout of records in a file data management system changes, what else must change?
2. What kind of relation is supported in a hierarchical data management system?

a. Parent-child

b. Many-to-many

c. Many-to-many-to-many

d. No relations are allowed.

1. What kind of relation is supported in network data management systems?

a. Parent-child

b. Many-to-many

c. Both parent-child and many-to-many

d. No relations are allowed.

4. Give an example of a SQL data manipulation language statement.

5. Give an example of a SQL data definition language statement.

6. What is scaling up-scaling out?

7. What do the C and A in the CAP theorem stand for? Give an example of how designing for one of those properties can lead to difficulties in maintaining the other.

8. What is the different between ACID and BASE.

9. Are NoSQL databases likely to displace relational databases as relational databases displaced earlier types of data management systems?

10. How many types of NoSQL databases. Describe characteristics of each