What is distributed database?

The distracted database is a logically interrelated collection of shared data and a description of the data, physically distributed over a computer network.

What are the differences between homogeneous and heterogeneous distributed databases?

A homogeneous distributed database resembles a standard centralised database, but instead of storing all the data at one site, the data is distributed across a number of sites in a network.

In a heterogenous distributed databases each location has its own local users, local transactions and database.

What is data fragmentation?

A relation (table) may be divided up into a number of sub-relations called fragments which are then distributed.

Explain the difference between horizontal and vertical fragmentation. Create a sample table of data and use this table to illustrate your answer.

A horizontal fragment of a relation consists of a subset of the tuples of relation, vertical fragment of a relation consists of a subset of the attributed of a relation

What is meant by, transactional transparency, performance transparency?

Transaction transparency in a ddbms ensures that all distributed transactions maintain the database’s integrity and consistency, performance transparency requires that the ddbms performs as if it were a centralised dbms.

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