Assignment 1: Give a definition for the following terms and differentiate between them: data warehouse, distributed databases, and federated databases. How are data marts related to them?

Assignment 2: Explain conceptual differences between transactional databases (OLTP) and data warehouses (OLAP). To this end, explain the term transaction.

Assignment 3: What are dimensions, measures, and facts in the context of data warehouses. Give an explaining example.

Assignment 4: Classify the concept of data warehouse in the context of big data!

Assignment 5: What are typical benchmarks for databases? Which statements can be made using these benchmarks?