Suryadatta Education Foundation's

Suryadatta Group of Institutes, Pune-21

MCA Department

MCA AY 22-23 (Batch 2022-24)

Chapter 2

Assignment Question

1. Explain the main components of a typical Data Warehouse architecture and their roles.
2. What is the difference between the data staging area and the data presentation area in a Data Warehouse architecture? How do they contribute to the overall functionality of the system?
3. Describe the concept of data normalization and denormalization in the context of Data Warehouse architecture. What are the benefits and challenges of each approach?
4. In a Data Warehouse architecture, what is the purpose of an OLAP (Online Analytical Processing) layer? How does it differ from the OLTP (Online Transactional Processing) layer, and why is it important for analytical tasks?
5. Discuss the various data distribution strategies used in Data Warehouse architecture. Compare and contrast hash-based distribution and range-based distribution, highlighting their respective advantages and potential use cases.