1. Characteristics of Data Warehouse
2. Differences between Data Warehouse, Data Mart and Data Lake
3. Warehouse Architecture
4. Warehouse Design Methodologies
5. Data Cube with example and Cube Computation
6. OLAP Operation, Types of OLAP
7. Comparison OLTP,OLAP
8. Issues in Data Mining
9. Sources of Data for Data Mining
10. Data Mining Functionalities
11. Data Cleaning Process and Steps in KDD Process
12. Dat Mining is one of the steps in KDD Process
13. Data Integration
14. Data Reduction
15. Definitions: BI, Dimensional Table, Prediction, Data Mining, Clustering, Classification.
16. Suppose that you are given a small 3x2 matrix, calculate Principal Component Analysis without using pca() function? Matrix: ([3, 5], [4, 2], [1, 6])
17. Explain different binning methods used for data smoothing. Apply these methods to the sorted price data: 4, 8, 9, 15, 21, 21, 24, 25, 26, 28, 29, 34.
18. Statistical Functions using in Data Analysis and Regression Techniques.