

DBMS assignment-II

Important Questions

Unit-3

- 1.Explain in detail the concept of dependency preservation and lossless decomposition with examples and counter examples. [BL2]
- 2.Explain 4th normal form, BCNF with suitable examples. [BL2]
- 3.Use Armstrong's axioms to prove the soundness of decomposition rule and pseudo transitivity rule [BL4]
- 4.Consider a relation R(ABCDEFGHIIJ) with FS's {AB→C, A→DE, B→F, F→GH, D→IJ }
Convert it into 2NF and 3NF. [BL5]

Unit-4

- 1.Explain the ACID properties of a transaction. [BL2]
- 2.Draw and Explain the state transition diagram of a transaction [BL3]
- 3.Explain in details the Two Phase locking protocols [BL2]
- 4.Discuss the nature of time stamp based protocols [BL2]
- 5.Discuss Validation protocols, Multiple granularity with example [BL2]

Unit-5

- 1.Explain the different backup and recovery techniques in detail [BL2]
- 2.Compare Deferred and immediate-modification versions of the log-based recovery scheme [BL3]
- 3.Explain the Cost based query optimization in detail [BL2]
- 4.Explain the concept of Triggers, Cursors with examples [BL2]
- 5.Explain the procedure to evaluate the cost of a Query [BL2]