

Assignment 2

Class: B.E. I.T. Sub: Database Management System SEM: V Faculty: Krupa Patel 2010

No. Answer the following Questions.

1. Explain referential integrity.
2. Explain Functional Dependencies. Also define trivial FD.
3. R(ABCDEFGH) and F: (A->BC, AB->DE, D->EF, F->A) Find out all the Candidate Key
4. Explain the concept of Multivalued Dependency with example.
5. Find the canonical cover for set of Functional Dependencies is
R(ABCD), F: (A->B, C->B, D->ABC, AC->D)
6. Explain Insertion, Modification and Deletion anomalies with Example
7. Find out the Normal Form of given Relation
R(ABCD), F: (AB->CD, C->A, A->C)
8. Explain the Primary Index and Secondary Index.
9. Construct a B+-tree for the following set of key values:
(8,5,1,7,3,12,9,6)
Assume that the tree is initially empty and values are added in ascending order. Construct B+-trees for the cases where the number of pointers that will fit in one node is 4
10. Explain dynamic hashing with Example.