JNTUK/JNTUGV Database Management Systems Important Questions

Unit-1

--Data Model (brief intro) (v.imp)

-- Centralized and Client Server architecture for the database.

- Instance and data independence; Three tier schema architecture for data independence (v.imp)

-Database system, Characteristics (imp) (try to learn basic info)

-Database system structure, environment, (imp)

UNIT II

-SQL functions & different DML operations (imp)

- SQL querying using arithmetic & logical operations,

-constraints & table definition

-concepts of domain, attribute, tuple

UNIT III

- nested queries, sub queries (v.imp)

-generalization using ER Diagrams.

-implementation of key and integrity constraints,

-relational set operations & different types of joins

-Representation of entities, attributes, constraints, sub classes, super class, inheritance,

Unit-IV

-concept of functional dependency, dependency preserving decomposition (v.v.imp)

(unit-4 continuation)

- 1NF, 2NF , 3 NF ,4NF , 5 NF (imp)

-Boyce-codd normal form(BCNF), surrogate key (v.imp)

UNIT V

-Hash Based Indexing & Cluster Indexes,

-Indexes and Performance Tuning

-B+ index trees & Locking Protocol

-Single file indices & Recovery algorithm.

-Serializability, Recoverability,

-Implementation of Atomicity and Durability