

CSE-224 DATABASEMANAGEMENT SYSTEMS

Fundamentals of DBMS, different data models. Relational database systems. ER modelling, Enhanced ER Model, ER to Relational Mapping. Relational Database Design, integrity constraints, functional dependency constraints, assertions, triggers, Normalization in relational approach. Relational algebra and calculus. SQL, overview of query processing and cost estimation, Query Optimization, Transaction processing and concurrency control. Data storage and indexing, B-Trees and B+ Trees, Overview of advanced databases.

References:

1. Fundamentals of Database Systems Elmasri & Navathe
2. Database System Concepts Silberschatz, Korth & Sudershan .
3. An Introduction to Database Systems C. J. Date