

CSL4206: DATABASE MANAGEMENT SYSTEM

SYLLABUS FOR SESSIONAL TEST 2

- Binary Relational Operations(Join, Division) , Aggregate Functions and Grouping,
- Tuple Relational Calculus
- Query by example
- Introduction to Normalization, their practical uses.

Functional Dependencies

(Fully, Transitive, Multivalued, Join Dependencies)

1st Normal Form

2nd Normal Form

3rd Normal Form

Boyce Codd Normal Form(BCNF)

4th Normal Form, 5th Normal Form, 6th Normal Form

- Introduction to Transaction and its desirable properties.
- System Log, Schedules
- Characterizing Schedules based on Recoverability & Serializability
- Integrity constraints: Primary key, Unique, Not null, Check
- Integrity constraints: Foreign key, default
- Logical and arithmetic operators
- Relational operators and Miscellaneous operators: like, in , between, ||, Not in, Not Like, Not between
- Single row function (aggregated functions): Sum, count, max, min, avg
- Sql functions: Date, Numeric, character, Conversion functions
- DCL commands (GRANT, REVOKE) – To manage the database administrator role
- Implementing TCL commands (COMMIT, ROLLBACK, SAVEPOINT, SET TRANSACTION)