Final Exam will cover topics related to following and much more based on teaching in class and slides.

Transaction concept, ACID property

Serial and Serializable histories

Conflict serializable

Two-phase locking

Optimistic concurrency control based on validation.

How to implement locks and Cost of locking

How to implement optimistic/validation and performance

Checkpoints

Cascade rollback.

Conflict graph of concurrent transactions, wait for graphs.

Deadlocks, Lovelocks/starvation

Keys of a relation

Functional Dependencies

Problems with unnormalized relations

1st, 2nd, 3rd, BCNF normal forms

Lossless join, dependency preservation

Various types of joins, relational algebra, SQL

Methods for ensuring serializability for concurrent transactions, performance.

Methods/Algorithms for recovery, privacy preservation (will cover in class Next week)

Measures of performance for concurrent transactions, recovery, privacy, security (will cover in class next week)

More from material covered before midterm (including questions suggested for midterm)

And much more from readings and material presented in Class.