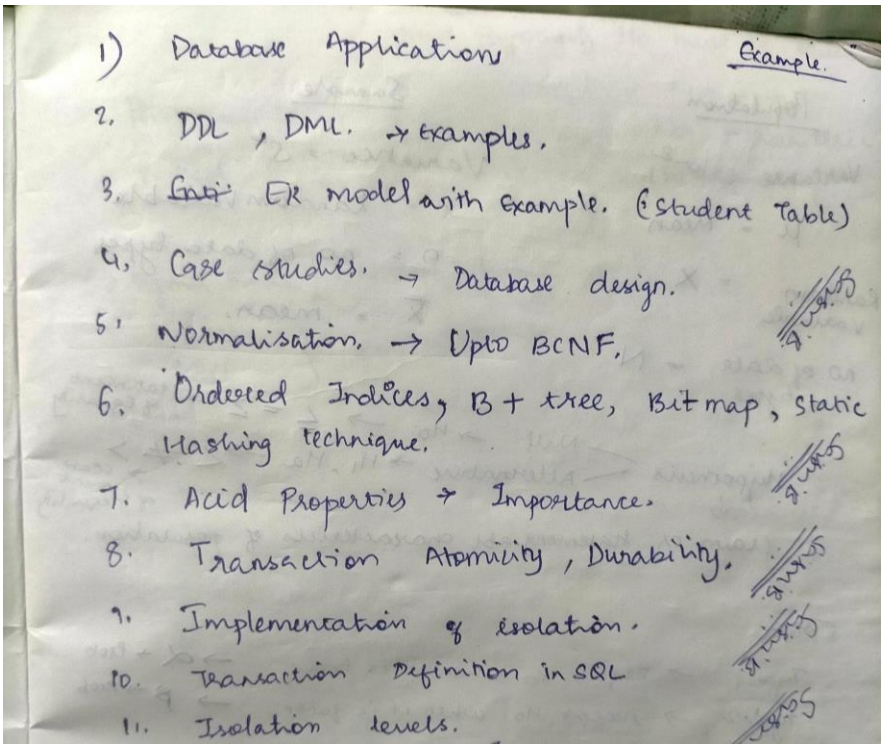
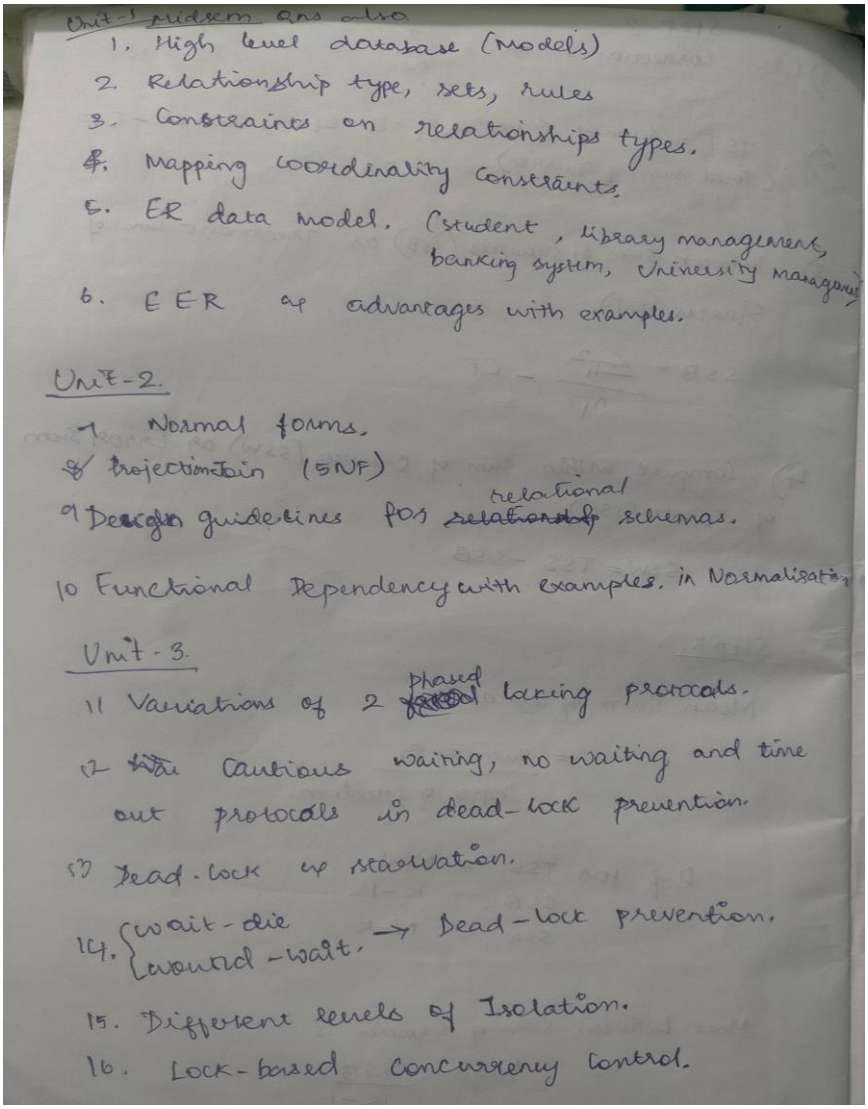
ADT important questions:



1) Database Applications — Example.
2. DDL, DML. → examples.
3. ~~Explain~~ ER model with example. (Student Table)
4. Case studies. → Database design.
5. Normalisation. → Upto BCNF.
6. Ordered Indices, B+ tree, Bit map, Static Hashing technique.
7. Acid Properties → Importance.
8. Transaction Atomicity, Durability.
9. Implementation of isolation.
10. Transaction Definition in SQL
11. Isolation levels.



Unit-1 Midsem ans also
1. High level database (models)
2. Relationship type, sets, rules
3. Constraints on relationships types.
4. Mapping cardinality constraints.
5. ER data model. (student, library management, banking system, University management)
6. EER & advantages with examples.

Unit-2.
7. Normal forms.
8. ~~Projection~~ Join (5NF)
9. Design guidelines for ~~relational~~ relational schemas.
10. Functional Dependency with examples. in Normalisation

Unit-3.
11. Variations of 2 ~~phase~~ phased locking protocols.
12. ~~Write~~ Cautious waiting, no waiting and time out protocols in dead-lock prevention.
13. Dead-lock & starvation.
14. {wait-die, wound-wait.} → Dead-lock prevention.
15. Different levels of Isolation.
16. Lock-based Concurrency control.

Unit-4.

17. NOSQL & SQL (or traditional) D/B.
18. HBase & Oracle D/B
19. HBase Architecture
20. HBase Commands.
21. Graph Databases & usages, with examples.
22. Categories of NOSQL Databases.
23. Column Oriented Databases.
24. Key-Value Databases.
25. NOSQL Characteristics.
26. Storing & Accessing data with HBase.

Unit-5.

27. CRUD in NOSQL Database.
28. Transaction control language. (Commands, Rollback, Savepoint)
29. Data Consistency with NOSQL db
30. NOSQL & traditional db with respect to crud operations.
31. DDL commands.
32. DML with Cassandra
33. Comparison of Mongodb & Cassandra.