

UNIT-III

Department of Computer Science and Engineering (Cyber security), NRCM

 NARSIMHA REDDY ENGINEERING COLLEGE UGC AUTONOMOUS INSTITUTION Maisammaguda (V), Kompally - 500100, Secunderabad, Telangana State, India	Accredited by NBA & NAAC with 'A' Grade Approved by AICTE Permanently affiliated to JNTUH
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S. No	Questions	BT	CO	PO
Part –A(Short Answer Questions)				
1	Define redundancy?	L1	CO3	PO5
2	Discuss normalization?	L3	CO3	PO1
3	List the aggregate functions supported by SQL?	L2	CO3	PO5
4	List the table modification commands in SQL?	L2	CO3	PO5
5	List the set operations of SQL?	L2	CO3	PO1
6	What is the use of group by clause?	L1	CO3	PO2
7	List out the Problems related to decompositions?	L2	CO3	PO1
8	Explain about multi-valued dependencies?	L2	CO3	PO4
9	Define First Normal Form?	L1	CO3	PO3
10	Explain about Loss less-join dependency?	L2	CO3	PO1
Part– B(Long Answer Questions)				
11	a) Elaborate Normalization? Explain 1NF, 2NF, 3NF, 4NF and 5NF with Examples?	L2	CO3	PO1
	b) What is functional dependency? Explain its types in detail?	L2	CO2	PO5
12	a) Explain insertion, deletion, and modification anomalies?	L2	CO3	PO2
	b) What is trigger? Explain how to implement triggers in SQL?	L2	CO3	PO1
13	a) What are the conditions to be followed to convert a relation in 3NF to BCNF?	L1	CO3	PO1
	b) Given a relation R(X,Y,Z) and Functional Dependency set FD= {XY→Z and Z→ }, determine whether the given R is in BCNF? If not convert it into BCNF.	L4	CO3	PO5
14	a) Determine whether the decomposition of R into R1 (A,B), R2 (B,C) and R3 (B,D) is loss less or loss.	L4	CO3	PO2
	b) Explain the following operators in SQL With Examples: i) INTERSECT ii) EXCEPT iii) UNION iv) SOME	L2	CO3	PO1
15	a) When is a decomposition said to be dependency preserving? Why this property Useful? Explain?	L3	CO3	PO1
	b) What aggregate operators does SQL support? Explain with examples?	L2	CO3	PO1