

SNS College of Technology, Coimbatore-35. (Autonomous) B.E/B.Tech- Internal Assessment - II Academic Year 2022-2023(EVEN) Fourth Semester 19CST202&Database Management Systems (Common to CSE, IT and AIML)



Time: 1.5 Hours

Maximum Marks: 50

		CO	Blooms
1.	List the set operations of SQL	CO2	Und
2.	What are aggregate functions? And list the aggregate	CO2	Rem
	functions supported by SQL?		
3.	Define Boyce Codd Normal Form .	CO3	Rem
4.	Write down the steps for Closure set of FD's.	CO3	Und
5.	Define Multi-valued Functional Dependency.	CO3	Rem

## Part-B (13+13+14=40)

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6.	a.			• • •	with a data-c		13	CO2	App
			architecture pattern using Kubernetes engine, Docker						
			ontainers, and Oracle Autonomous Database.using						
		Modern A	n AppDev						
			(or)						
	b.	Explain a	Explain about the advanced and Embedded SQL with an					CO2	Rem
		example							
7.	a.i	Normalize the given table into Fourth Normal Form and					6	CO3	Ana
		explain it.							
			Std_Id	Course	Hobby				
			121	Computer	Reading				
			121	Maths	Playing				
			123	Chemistry	Designing				
			124	Biology	Drawing				
	ii	Normalize the given table into Fifth Normal Form and					7	CO3	Ana
		explain it.							
			Subject	Lecture	Semester	r			
		Computer Anu		1					
			Computer	John	1				
			Maths	John	1				
			Maths	Akash	2				
		(or)							

Reg.No:

	b.	Explain the Dependencies and types used in database	13	CO3	Und
		design with a suitable example			
8.	a.	Consider the following relation schema Works (Pname, Cname, salary) Lives (Pname, Street, City) located in (Cname, city) Manager (Pname, Mgrname) Write the SQL queries for the following i) List the names of the people who work for company Wipro along with the cities they live in ii)Find the people who work for the company "Infosys" with salary more than Rs. 50000/ List the names of the people, along with the streets and city addresses. iii)Find the names of the persons who live and work in the same city iv)Find the names of the person who do not work for "Infosys" v)Find the average salary of "Infosys" persons	14	CO2	App
		or			
	Ь.	<ul> <li>Derive the secondary rules for the given axioms <ol> <li>Union</li> <li>If A→ B holds and A C holds, then A BC holds.</li> </ol> </li> <li>16 A→ B and X → Y holds, then A YZ</li> <li>Composition <ol> <li>A→BC holds then A → B and A → C hold. If X→YZ then X→Y and X→Z</li> </ol> </li> </ul>	14	CO3	App

Rem-Remembering Und-Understanding App-Applying Ana-Analysing Cre-Creating

Verified by