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V SEMESTER B.TECH. (MECHATRONICS ENGINEERING) MAKE-UP EXAMINATIONS, DEC 2019

SUBJECT: DATABASE MANAGEMENT SYSTEMS [MTE 4011]

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

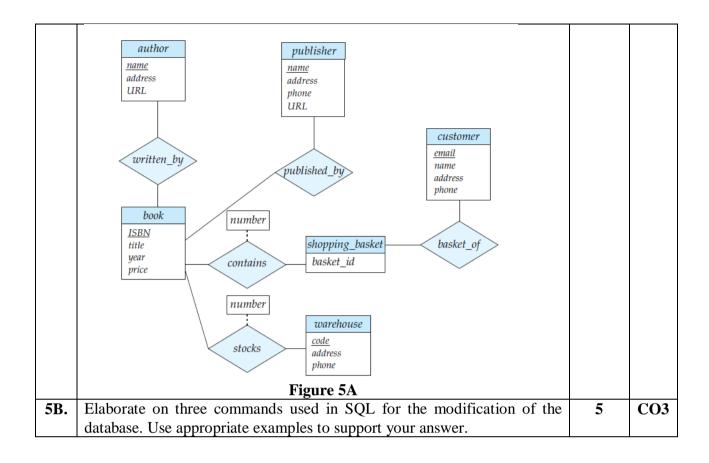
- ❖ Answer **ALL** questions.
- Data not provided may be suitably assumed

						Marks	CO	
1A.	Elaborate on the	ate on the ACID properties of transactions with suitable examples.						
1B.		For the set of transactions shown in Table 1B, find the most frequent item set with a minimum support of 3 using the FP Growth algorithm. Table 1 B						
	Transaction		Item	sets				
	1		Fries, Apples, Coconuts, Dates, Guavas, Mangoes,					
		, F F	Pineapples					
	2	Apples	, Bananas, Coc	onuts, Fries, L	ychees,			
		Mangoes, Oranges Bananas, Fries, Hotdogs, Oranges						
	3							
	4							
	5							
			Mangoes, Nuts					
2A.	Create the Dec	gain for the	6	CO5				
	data iii Table 2							
	Outlook	Temperature	Table 2A mperature Humidity Windy Class					
	Sunny	Hot	High	False	N			
	Sunny	Hot	High	True	N			
	Overcast	Hot	High	False	P			
	Rain	Rain Mild Rain Cool		False	P			
	Rain			False	P			
	Rain	Cool	Normal	True	N			
	Overcast	Cool	Normal	True	P			
	Sunny	Mild	High	False	N	4		
2B.	For the two relations shown in Tables 2B.1 and 2B.2, compute the output						CO ₂	
4 D.								
2D .	of the followin	g operations using	g Kelational Ai	50014.				
2D.	of the followin i. $R \bigcup S$	g operations using	g Kelatioliai Ai	5001 u .				
2D.	1 1	g operations using	g Kelational Al	50014.				

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		Table	2R 1 · Relat	ion R			
		Table 2B.1: Relation R A B					
		λ		1			
		λ		2			
		5		<u>-</u> 1			
		A		В			
		λ		2			
		σ		3			
3A.	i. Break down tii. Differentiate	6	CO2				
	Form.						
		Customer	Table 3A Store ID	Purchase			
		ID		Location			
		1	1	Los Angeles			
		1	3	San			
				Francisco			
		2	1	Los Angeles			
		3	2	New York			
		4	3	San			
				Francisco		4	CO1
3B.	B. Cite an example of a serializable schedule with two transactions such that the order in which the transactions commit is different from the serialization						
	order.						
4A.							CO3
4B.	Draw an ER diagram for the following process: Customers visit the Centage website to purchase gardening items.						CO3
	Customers ma order is assig						
	multiple item						
	customers ma						
	return items a						
	information in						
5A.	=						CO3
	for the followin						
	i. List all the si						
	ii. List the num						
	with 10 or m						
	iii. List the cust						
	iv. Get details o						
	v. List all the p						

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