Code No: R1931051





III B. Tech I Semester Regular Examinations, February-2022 DATA WAREHOUSING AND DATA MINING

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit** All Questions Carry Equal Marks *****

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				UN	<u>[]-1</u>				
1.	a)	Compare OLAP & OLTP systems.							
	b)	Illus	trate index	king methods use	d for OLA	P data.		[7M]	
				(0	R)				
2.	a)	Explain data cube computation. What is the need for partial materialization?						[8M]	
	b)	Supp dime coun a pa ware what list t	bose that ensions tin at and cha tient for a house. Sta specific (he total fe	a data warel me, doctor and j rge, where charge a visit. Draw a S arting with the ba DLAP operations a e collected by eac	nouse co patient, a is the fee Snowflake use cuboid should be h doctor is	nsists of the nd the two meas that a doctor cha schema for this [day, doctor, pat performed in ord n 2010?	three sures arges data ient], .er to	[7M]	
3.	a)	Explain the process of knowledge discovery							
	b)	Discuss applications of data mining						[7M]	
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4.	a)	Summarize visualization techniques.						[8M]	
	b)	Illustrate data discretization techniques.						[7M]	
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5.	a)	Explain apriori algorithm with an example for mining frequent item sets.						[8M]	
	b)	Explain market basket analysis.							
	,	-		ັດ	R)				
6.	a)	Describe how to mine multidimensional association rules							
	b)	Construct an FP-tree for the dataset given below:							
	,	-			0			. 1	
			Tran-ID	List of item_IDs	Tran-ID	List of item_IDs			
			T ₁	I_1, I_2, I_5	T ₆	I_2, I_3			
			T_2	I_2, I_4	T_7	I_1, I_3			

1 of	2
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 T_8

T9

 T_{10}

I₁, I₂, I₃, I₅

I₁, I₂, I₃, I₄, I₅

 I_1, I_2, I_3

T₃

T₄

T₅

 I_2, I_3

 I_1, I_3

I₁, I₂, I₄

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UNIT-IV

7.	a)	Explain basic algorithm for inducing a decision tree from	[8M]					
		training samples.						
	b)	Distinguish supervised learning from unsupervised learning.						
(OR)								
8.	a)	Explain Naïve Bayesian classification technique with example.						
	b)	Distinguish between Lazy learners and Eager learners.	[7M]					
		<u>UNIT-V</u>						
9.	a)	Illustrate K-medoids algorithm.	[8M]					
	b)	Explain DBSCAN algorithm used for clustering.						
		(OR)						
10.	a)	Compare hierarchical clustering methods.	[8M]					
	b)	Explain how to compare the clusterings generated by different methods.	[7M]					

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