## Chandigarh College of Engineering and Technology (Degree Wing), Chandigarh Department of Computer Science and Engineering

## Sessional Test -1 (April-2022)

Subject (Code):Data Mining and Analysis (CS605C)

Semester: VIth Date (Session): 08.04.2022(M) Name of Teacher: Dr. Ankit Gupta

Maximum Marks 30 Time: 1:30 Hrs

Note: 1. Attempt all questions. 2. All question carry equal marks.

Q.N	Questions				co
<b>y</b> .	Suppose that the minimum and maximum values for some attribute "income" are \$10,000 and \$195,000, respectively. We would like to map income to the range [20.0, 30.0]. Calculate the transformed value of \$80000 by min-max normalization. [2]  b. Explain Attribute Oriented Induction and its implementation with suitable example. [3]  Discuss various Schemas used for Multidimensional model with the help of suitable example.				COI
/					COI
/	a Data Warehouse deals with Archived Data". Comment. [2] > Mistorical data				COI
/	Define Support' and "Confidence". How they affect the data mining process. [3] -) Are all pattern intros				ing
V.	a. What is a Concept Hierarchy? Explain with the help of suitable example. [3]				COI
-	Dr. Compare Symmetric binary attributes and Asymmetric binary attributes with the help of suitable example. [2]				
8.	Suppose that a group of 1,500 people was surveyed. The gender of each person was noted. Each person was polled as to see whether their preferred type of reading material was fiction or nonfiction. Thus, we have two attributes, gender and preferred reading. The observed frequency (or count) of each possible joint event is summarized in the contingency table shown in Table				COI
		male	female	Total	
	Fiction	250	200	450	
	Non fiction	50	1000	1050 Since Our Commutat Value is a had	
	Total	300	1200	1500 Since out Computed value is greater	
	Total 300 1200 1500 Since our Computed value is greater Find out whether the two attributes are correlated or not. Thus, attributes are corrected				
	(Assume that for 1 degree of freedom, the chi-square value needed to reject the hypothesis at the 0.001 significance				
/	level is 10.828	.)			
	Explain the Architecture of Data Warehouse. Also Discuss various Data Cube measures.				COI

Multidimensional data model

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