Mahavir Education Trust's



SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE

Chembur, Mumbai - 400 088

UG Program in Computer Engineering

Course Code	CSC603	Course Name	Data Warehousing and Mining
Academic Year	2020-2021	Semester	VI
Class	TE-3,TE-4	Course Incharge	Ms. Pinki Vishwakarma

Course Outcomes (CO)

CO No.	CO Statement (At the end of the course, students will be able to)	BL
1	Understand Data Warehouse fundamentals, Data Mining Principles	2
2	Design data warehouse with dimensional modelling and apply OLAP operations.	3
3	Identify appropriate data mining algorithms to solve real world problems	2
4	Compare and evaluate different data mining techniques like classification, prediction, clustering and association rule mining	4
5	Describe complex data types with respect to spatial and web mining.	2
6	Benefit the user experiences towards research and innovation.	4

Assignment-1

Date:23/02/2021 Submission Date:3/03/2021

Q. No.	Question	Marks	BL	СО	PSO	PI
1	In real-world data, tuples with missing values for some attributes are a common occurrence. Describe various methods for handling this problem.	5	2	CO1	1,2	1.4.1,2.1.2,2.2.2, 2.1.3,
2	Suppose that a data warehouse consists of three dimensions time, doctor and patient, and the two measures count and charge where charge is the fee doctor charges a	5	3	CO2	1,2	2.2.2,2.2.3, 10.1.1,10.1.2

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	patient for visit. Draw a star schema diagram for the above data warehouse.									
3	from an en been gener age represe a given rov number of	sists of training ase. The data cample, "31 ange of 31 to a trepresents that aving the valuand salary gives	5	2	CO3	1,2	1.4.1,2.1.2, 2.1.3,2.2.3,2.3.1 4.2.1			
	dept	statu s	ag e	salary	count					
	sales	senio r	31 35	46K50K	30					
	sales	junio r	26 30	26K30K	40					
	sales	junio r	31 35	31K35K	40					
	syste ms	junio r	21 25	46K50K	20					
	syste ms	senio r	31 35	66K70K	5					
	syste ms	junio r	26 30	46K50K	3					
	syste ms	senio r	41 45	66K70K	3					
	marke ting	senio r	36 40	46K50K	10					

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1				1			1			
	marke	junio	31	41K45K	4					
	ting	r								
			35							
	secret	senio	46	36K40K	4					
	ary	r								
			50							
	secret	junio	26	26K30K	6					
	ary	r								
			30							
	Let status	be the c	lass la	ibel attribute.	1					
	a) Given	a data tu	ple ha	aving the valu	es					
	"systems	," "26	30,"	and "46-50K	" for					
	the attributes department, age, and salary,									
	respectively, what would a naive Bayesian									
	classification of the status for the tuple be?									
4				using compl		5	2	CO3	1,2	1.4.1,2.1.2
			_	algorithm. T						2.1.3,2.2.3,2.3.1,
	below indicating	comprise	S S	ample data	items					4.2.1
	•	-	en the	e elements (ad	liacency					
	matrix).	ijacency								
	Item 1	E A		СВ	D					
	Е (_	2 2	3					
	A 1	0		2 5	3					
	C 2	2 2		0 1	6					
	B 2			1 0	3					
	D 3	3		6 3	0					

Name:	Signature:
Data	