(I) Dice (ii) Slice

(iii) Roll-Up

Q3. (B) Explain ETL (Extract Transform Load) cycle in a Data Warehouse in detail

(IV) Drill-Down

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[Total Marks: 100

(3 Hours)

N.B.: (1) Ouestion No. 1 is compulsory. Answer any four questions out of the remaining six questions. (2) (3) Assume data if required, and state clearly. Q1. (A) What is a Data ware house? Explain the three tier architecture of a Data Ware house with a block diagram. 10 Q1. (B) Explain Data mining as a step in KDD. Explain the architecture of a typical DM system. 10 Q2. (A) What is meant by market- basket analysis? Explain with an example. State and explain with formula the meaning of following terms 10 (I) Support (ii) Confidence (iii) Iceberg Queries Hence explain how to mine multilevel Association rules from transaction databases, with examples. Q2. (B) What is meant by Web Mining? Explain any one Web mining Algorithm. 10 Q3. (A) All Electronic company have sales department sales, consider three dimensions namely 10 (i) Time (ii) Product (iii) Store The schema contains central fact table sales with two measures (I) Dollars-cost and (ii) Units-Sold Using the above example, describe the following OLAP operations

10

Q4. (A) Compare between OLAP and OLTP			10
Q4. (B)	Q4. (B) Explain in detail the HITS Algorithm		
	•		
require inform schem	ements for "Hotel Occ ation package diagran a	ormation Package Diagram, For recording the information upancy" having dimensions like time, hotel etc., give the n for the same, also draw the star schema and snowflake	10
Q5. (B)	Consider the following	ig transactions: -	10
TID	Items		
01	1,3,4,6		
02	2,3,5,7		٠
03	1,2,3,5,8	-	
04	2,5,9,10		
05	1,4	·	
and fir Q6. (A) algorith Q6. (B)	Apply the Apriori Algorithm with minimum support of 30 % and minimum confidence of and find the large item set L Q6. (A) Give five examples of application that can use clustering. Describe any one cluster algorithm with an example. Q6. (B) What is meant by meta data? Explain with example. Explain the different types of meta data stored in a data ware house. Illustrate with examples.		
(a) (b) (c)	Trends in Data Ware	classification Approach Housing	20
(d)	Attribute Oriented In	duction	