Question Bank

Q.1) What is Cluster analysis? Explain K-means algorithm for cluster analysis with example. [10]

Q.2) Describe OLAP with example. [10]

Q.3) Write Apriori Algorithm and apply it for the following data-set to find the List of Frequent ltem-sets, if the Minimum Support Count is 30%. [10]

|  |  |
| --- | --- |
| TID | List of Items |
| 1 | a,b,c |
| 2 | b,c,d |
| 3 | c,d |
| 4 | b,d |
| 5 | a,c |
| 6 | a,c,d |

Q.4)Difference between OLTP & OLAP Systems. [10]

Q.5) What are the different characteristics of a Data Warehouse? [10]

Q.6)Describe the following OLAP operations [10]

i)Slice  
ii)Dice  
iii)Rollup  
iv)DrillDown  
v) Pivot

Q.7) Write short notes on any four [20]

a)Text Mining

b)ETL Process

c)OLAP Datacube

d)Data mining Process

e) Association Rule

Q.8) State and explain various schemas in dataware house.

Q.9) Explain the ETL (Extract, Transform, Load) cycle.

Q.10) Explain the role of Meta data in a data warehouse.