

Date : 17 July 2023

Lab Code	Lab Name	Sem
CSL503 Sem-V Rev.2019	DATA WAREHOUSING AND MINING	V

LAB OUTCOME

1. Design data warehouse and perform various OLAP operations.
2. Implement data mining algorithms like classification.
3. Implement clustering algorithms on a given set of data sample.
4. Implement Association rule mining & web mining algorithm

LIST OF EXPERIMENTS

Expt No	Title of Experiments	Course Outcome
1	Select a dataset and perform exploratory data analysis using Python(data preprocessing, transformation, discretization and visualisation)	LO2
2	One case study on building Data warehouse/Data Mart • Write Detailed Problem statement and design dimensional modelling (creation of star and snowflake schema)	LO1
3	Implementation of all dimension table and fact table based on experiment 1 case study	LO1
4	Implementation of OLAP operations: Slice, Dice, Rollup, Drilldown and Pivot based on experiment 1	LO1
5	Implementation of Bayesian algorithm	LO2
6	Perform data Pre-processing task and Demonstrate performing Classification, Clustering, Association algorithm on data sets using data mining tool (WEKA/R tool)	LO2, LO3
7	Implementation of Clustering algorithm (K-means/K-medoids)	LO3
8	Implementation of any one Hierarchical Clustering method	LO3
9	Implementation of Association Rule Mining algorithm (Apriori)	LO4
10	Implementation of Page rank/HITS algorithm	LO4

List of Written Assignments:

11. What is metadata? Explain data warehouse Metadata with Example .
12. Write short Notes on
 - a. Multilevel Association rules and Multidimensional association rules
 - b. Web Usage Mining

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SUBJECT INCHARGE