Date : 8th Jan 2020

Lab Code	Lab Name	Sem
CSL603	**DATA WAREHOUSING AND MINING**	VI

Course outcomes: On successful completion of course learner will be able to

1. Understand Data Warehouse fundamentals, Data Mining Principles
2. Design data warehouse with dimensional modelling and apply OLAP operations.
3. Identify appropriate data mining algorithms to solve real world problems
4. Compare and evaluate different data mining techniques like classification, prediction, clustering and association rule mining
5. Describe complex data types with respect to spatial and web mining.
6. Benefit the user experiences towards research and innovation.

LIST OF EXPERIMENTS

Experiment No	Title of Experiments	Course Outcome
1.	Build Data Warehouse/Data Mart for a given problem statement i) Identifying the source tables and populating sample data ii) Design dimensional data model i.e. Star schema, Snowflake schema and Fact Constellation schema (if applicable)	CO1
2.	To perform various OLAP operations such as slice, dice, drilldown, rollup, pivot	CO2
3.	Implementation of Naive Bayes Classification algorithm	CO3, CO4
4.	Implementation of Linear Regression.	CO3, CO4
5	Implementation of Clustering algorithm(K-Means/ Agglomerative clustering)	CO3, CO4
6	Implementation of Association Rule Mining algorithm (Apriori).	CO3, CO4
7	Perform data Pre-processing task and Demonstrate performing Classification algorithm (Naive Bayes and ID3/J48) on data sets using data mining tool WEKA	CO3, CO4
8	Perform data Pre-processing task and Demonstrate performing Clustering algorithm (K-means and Agglomerative) on data sets using data mining tool WEKA	CO3, CO4
9	Perform data Pre-processing task and Demonstrate performing Association algorithm (Apriori and FP Tree) on data sets using data mining tool WEKA	CO3, CO4
10	Implement Page Rank Algorithm	CO5

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