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| 1 | Perform data loading and exploration tasks in WEKA with suitable sample data set. |
| 2 | Explore prerequisites WEKA by loading different forms of data and visualization of data. |
| 3 | Apply preprocessing techniques for few sample data sets in WEKA. |
| 4 | Implement Apriori algorithm for any training data set in WEKA. |
| 5 | Perform classification rule process on dataset student.arff using j48 algorithm in WEKA. |
| 6 | Implement Normalization technique in WEKA using training data sets. |
| 7 | Create histograms using visualize option to detect outliers in WEKA. |
| 8 | Perform OLAP case study with suitable example. |
| 9 | Demonstrate EM clustering algorithm for evaluation processes for labor.arff data set in WEKA. |
| 10 | Design data warehouse architecture for Employee database. |
| 11 | Perform a case study using OLAP operations such slice, dice, roll up, drill up and pivot for Automobiles Sales business analysis.. |
| 12 | Design multi-dimensional data model Star Schema for Banking. |
| 13 | Perform a case study for banking transaction processing system in OLTP. |
| 14 | Describe the process of data validation using SQL queries in data warehouse. |
| 15 | Create fact and dimension tables for business database analysis and generate star schema. |
| 16 | Perform a case study on online retail processing in OLTP based data warehouse. |
| 17 | Create Student database and generate graphs for star schema. |
| 18 | Load weather.arff dataset into WEKA and run Apriori algorithm with different support and confidence values. Study the rules generated. |
| 19 | Perform clustering in WEKA by loading training dataset and run simple k-means clustering algorithm with different values of k. |
| 20 | Load iris.arff dataset into WEKA and run id3, j48 classification algorithm, study the classifier output. Compute entropy values, Kappa statistic |

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| 1 | Perform exploration and visualization of training data sets in WEKA tool. |
| 2 | Create histograms using visualize option for weather.arff data set in WEKA. |
| 3 | Implement data preprocessing using .ARFF training data sets in WEKA tool. |
| 4 | Perform loading and exploration techniques using iris.arff data sets in WEKA. |
| 5 | Build a data warehouse system for Employee database. |
| 6 | Design and analyze an OLAP case study for Insurance database model. |
| 7 | Design a schema and discuss the role of dimensional modeling for data warehousing for student database. |
| 8. | Demonstrate clustering rule process on training dataset supermarket.arff using simple k-means in WEKA tool. |
| 9 | Perform a case study for Banking Transaction processing system in OLAP. |
| 10 | Perform exploration process by navigate the different options available in the WEKA |
| 11 | Perform loading and exploring the available data sets in WEKA |
| 12 | Perform a OLAP case study for Electronic products inventory analysis processing system |
| 13 | Apply different discretization filters on numerical attributes of weather.arff data set and run the Apriori association rule algorithm in WEKA. |
| 14 | Perform an OLAP case study for Healthcare database analysis. |
| 15 | Implement data warehouse testing process with sample database. |
| 16 | Perform clustering in WEKA by loading training dataset and run simple k-means clustering algorithm with different values of k. |
| 17 | Explore visualization features of WEKA to visualize the clusters. Derive interesting insights and explain. |
| 18. | Perform a case study on online retail order processing in OLTP based data warehouse. |
| 19 | Load each dataset into WEKA and run Apriori algorithm with different support and confidence values. Study the rules generated. |
| 20 | Apply cross-validation strategy with various fold levels and compare the accuracy results for iris.arff data sets in WEKA. |