Mining Multilevel Association Rulesbased on Boolean Matrix for Food Sales shop

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Abstract

The rapid growth in data and the number of database, there is a need for discovering valuable knowledge in large database which have business data. Today, many companies which are to gain profit from their previous business data are becoming interested to analysis their data for discovering useful information. Because this information can support business decision making and benefit of organizations. Data mining is approach to fill these requirements and is a machine learning technique on large data items. Association rule mining is one of the data mining techniques. This paper discuss the multilevel assocaition rule mining from business transcation data and the Boolean Matrix based approach which has employed to discover frequent itemsets at different levels. The system scans the transcation database once and then uses Boolean logical operation to generate the multilevel association rules. The system implements the application with real-life food products of Food sales Shop.