

## Assignment-5

### DATA MINING AND DATA WAREHOUSING LAB (CSX-425)

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*Solve all the questions*

- Q1: Consider dataset “Groceries” and apply apriori algorithm on it. What are the first 5 rules generated when the min support is 0.001 (0.1%) and min confidence is 0.9 (90%).

T2: Transaction Database for Example 1

Transaction ID	Items
T1	Bread, Butter, Eggs
T2	Butter, Eggs, Milk
T3	Butter
T4	Bread, Butter

- Q2: The 'database' below has four transactions. What association rules can be found in this set, if the minimum support (i.e coverage) is 60% and the minimum confidence (i.e. accuracy) is 80% ?

T1: Transaction Database for Example 2

Trans id	Itemlist
T1	{K, A, D, B}
T2	{D, A C, E, B}
T3	{C, A, B, E}
T4	{B, A, D}

- Q3: Demonstration of Association rule process on dataset titanic dataset (or any other dataset from studio) using apriori algorithm in rstudio.