

Note: This homework is worth a total of 15 points

**Dataset: Convenience store transactions**

ID	Bread	Milk	Sugar	Eggs	Shampoo	Conditioner
1	True	True	True	True	True	False
2	True	False	False	True	False	False
3	True	True	False	False	False	False
4	True	True	True	True	True	True
5	True	True	False	False	True	False
6	False	False	False	True	True	False
7	True	True	False	True	False	False
8	True	False	True	True	False	False
9	True	True	True	False	True	True
10	True	True	False	False	True	False

**Q1 (5pts): Find all frequent item-sets using Support  $\geq 0.45$**

**Q2 (5pts): Find all strong rules using Confidence  $\geq 0.75$**

**Only create rules for item-sets that passed the Support threshold**

**Q3 (5pts): Rank your rules by how informative they are according to their lift values**