Karanveer Sandhu 07/19/2021 PJD#: 6096890. Asg 3: Q3 Let Cereal = Ce, Cheese = Ch, Juice = J, Shampoo = S, Eggs = & The itemsels are Daniel: & Ce, Ch, J 9, Julie: & Ce, Ch 3, Mark: Ele, E, J, 53, Paulin! ECe, Ch &, Ricardo: ECe, Ch 3, Sophia: {Ce, Ch, S} Our minimum support value is 0.15 Since 16 = 0.16 > 0.15, itemsets only need one instance for it to be considered a frequent temset, 1-1 Frequentitems: Ce 6 Ce, Ch, J, S, E. 3 I-2 Frequent items: {Ce, Ch3: {Ce} => {Ch} Conf = Sup? (e, Ch) 5/6 = 5/6 5 instances Interest = (onf-sup&Ch3 = = = = 0

2(h3 → 2(e3 Conf = Sup 2(h, Ce3 5/6 = 1.00) Interest = | Conf-sup{Ce}] = 6-6 = 0  $\frac{2(e, J)!}{2} \cdot \frac{2(e^2 \Rightarrow 2J)}{2} \cdot \frac{2(e, J)!}{2} \cdot \frac{2(e, J)!}{6(6)} = \frac{2}{6} = 0.33$   $\frac{1}{5} \Rightarrow \frac{1}{5} \cdot \frac{1}{6} \cdot \frac{1}{6} = \frac{2}{6} = 0$   $\frac{1}{5} \Rightarrow \frac{1}{5} \cdot \frac{1}{6} \cdot \frac{1}{6} = \frac{2}{6} = 0$   $\frac{1}{5} \Rightarrow \frac{1}{5} \cdot \frac{1}{6} \cdot \frac{1}{6} = \frac{1}{6} \cdot \frac{1}{6} = 0$   $\frac{1}{5} \Rightarrow \frac{1}{5} \cdot \frac{1}{6} = \frac{1}{6} \cdot \frac{1}{6} = \frac{$  $\frac{2(h, J)}{2(h)} = \frac{5(h)}{5(h)} = \frac{5(h)}{5(h)} = \frac{1}{5} = 0.20$   $\frac{1}{5(h)} = \frac{1}{5(h)} = \frac{1}{5(h)} = \frac{1}{5} = 0.20$   $\frac{1}{5(h)} = \frac{1}{5(h)} = \frac{1}{5(h)$  ${\{Ce, E\}: \{Ce\} = \}} {\{Ce\}} = {\{Conf = Sup\{Ce, E\} = \frac{1}{616} = \frac{1}{6} = 0.17\}}$  $\frac{2(e,S)^{2}}{2} : \frac{1}{2(e)^{2}} = \frac{1}{2} = \frac{1}{2}$  $\{S\} \Rightarrow \{Ce\} \ (onf = \frac{|Conf - Sup \{S\}|}{|Sup \{S\}|} = \frac{|Z - Z|}{6} = 0$ Int= |(onf-sup{ce}=|1-1=0

$$\frac{\{E,J\}:}{\{E,J\}:} \{E\} \Rightarrow \{J\} (anf = \frac{sp\{E,J\}:}{sp\{E,J\}:} = \frac{16}{1/6} = 1.00)$$

$$\text{Int: } |(anf = sup\{J\})| = |I - \frac{7}{6}| = \frac{7}{6} = 0.67$$

$$\text{Int: } |(anf = sup\{E,J\}: = \frac{1}{2} = \frac{1}{6} = 0.50)$$

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L-3 Frequent Itemsets: & Ce, Ch, Js, & Ce, E, Js, & Ce, E, Ss, & Ce, J, Ss, & E, J, Ss, &

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