Q1. Frequent Intemsets

a)

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| --- |
| Pass1:  Counters: a:5, b:6, c:2, d:3, e:2  Frequent Items: a,b,d |
| Pass 2:  Frequent Items: a, b, d  Counters: ab:4, ad:2, bd:3  Frequent 2-Items: ab, bd |
| Pass 3:  Frequent 2-Items: ab, bd  Counters: abd: 2  Frequent 3-Itemsets: None. |
| Frequent Itemsets: {a}, {b}, {d}, {ab}, {bd} |

b)

The results from the previous computing is enough since conf{b->d} =

Both {b} and {b,d} are counted before.

The support for {b->d} is

c)

Hash Function: f(i, j) = (i+j)%3

|  |
| --- |
| Pass1:  Counters for the itemsets:  1:2, 2:2, 3:2, 4:2, 5:1, 6:1, 7:2  f(1,3)=1; f(1,4)=2, f(3,4)=1, f(4,5)=0, f(2,7)=0, f(1,6)=1  Counters for the buckets:  B0:3, B1:3, B2:1  Frequent Items: 1, 2, 3, 4, 7 |
| Pass 2:  Frequent Items: 1, 2, 3, 4, 7  Counters for the buckets: B0:3, B1:3, B2:1  Counters for the itemsets:  (1,3):1, (2,7):2, (3,4):1  Frequent 2-Items: (2, 7) |
| Pass 3:  Frequent 2-Items: (2, 7)  No frequent 3-itemsets combination |
| Frequent Itemsets: {1}, {2}, {3}, {4}, {7}, {2,7} |

Question 2

2.1

文本, 信件

描述已自动生成

Q 2.2

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