

# Project 1\_Report

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## 1. Implement FP-Growth algorithm (Coding with Python 3.6.5)

執行方式：python3 FPGrowth.py (must in “code” folder)

### (a) (Kaggle)Titanic: Machine Learning from Disaster

➔ Original Data Columns: PassengerId, Survived, Pclass, Name, Sex, Age, SibSp, Parch, Ticket, Fare, Cabin, Embarked

➔ (Delete the data columns that aren't important for analyzing)

➔ Final Data Columns: Survived, Pclass, Sex, Age, Embarked

(‘Age’ data were split into 5 range class: Kids(0~8), Teenager(9~18), Adult(19~40), Middle(41~65), Elder(66~))

➔ [16 item(s), 891 transaction(s)], min support = 20%, Spent Time:0.0125 s

➔ Results: ([item] count)

Frequent Patterns whose appearance is  $\geq$  min\_support(178):

['Embarked_at_S'] 644	['Not_Survived', 'Adult(19~40)'] 262
['Male'] 577	['Survived', 'Female'] 233
['Not_Survived'] 549	['Male', 'Not_Survived', 'Adult(19~40)'] 231
['Pclass3'] 491	['Kids(0~8)'] 231
['Male', 'Not_Survived'] 468	['Embarked_at_S', 'Male', 'Not_Survived', 'Pclass3'] 231
['Embarked_at_S', 'Male'] 441	['Embarked_at_S', 'Male', 'Adult(19~40)'] 229
['Embarked_at_S', 'Not_Survived'] 427	['Pclass3', 'Adult(19~40)'] 223
['Adult(19~40)'] 427	['Embarked_at_S', 'Not_Survived', 'Adult(19~40)'] 221
['Not_Survived', 'Pclass3'] 372	['Embarked_at_S', 'Survived'] 217
['Embarked_at_S', 'Male', 'Not_Survived'] 364	['Pclass1'] 216
['Embarked_at_S', 'Pclass3'] 353	['Embarked_at_S', 'Female'] 203
['Male', 'Pclass3'] 347	['Embarked_at_S', 'Male', 'Not_Survived', 'Adult(19~40)'] 194
['Survived'] 342	['Embarked_at_S', 'Pclass3', 'Adult(19~40)'] 188
['Embarked_at_S', 'Adult(19~40)'] 339	['Pclass2'] 18
['Female'] 314	
['Male', 'Not_Survived', 'Pclass3'] 300	
['Embarked_at_S', 'Not_Survived', 'Pclass3'] 286	
['Male', 'Adult(19~40)'] 282	
['Embarked_at_S', 'Male', 'Pclass3'] 265	

### ● 討論：（針對生存與否）（黃底標示部分）

- 男性死亡率極高（約81%），女性生存率約74%。<sup>1</sup>
- 在S港口上船的人數最多，但其中約66%的人死亡（為登船港口中最多），其中男性又佔約85%。<sup>2</sup>
- （承上）可能的原因為在S港口上船的人有71%都是Pclass3（最低等級船艙），其中81%死亡。<sup>3</sup>
- 在Pclass3（最低等級船艙）中死亡的人中有76%是從S港口上船的。<sup>4</sup>

<sup>1</sup> ['Male'] 577, ['Male', 'Not\_Survived'] 468 ; ['Female'] 314, ['Survived', 'Female'] 233

<sup>2</sup> ['Embarked\_at\_S'] 644, ['Embarked\_at\_S', 'Not\_Survived'] 427, ['Embarked\_at\_S', 'Male', 'Not\_Survived'] 364

<sup>3</sup> ['Embarked\_at\_S'] 644, ['Embarked\_at\_S', 'Pclass3'] 353, ['Embarked\_at\_S', 'Not\_Survived', 'Pclass3'] 286

<sup>4</sup> ['Not\_Survived', 'Pclass3'] 372, ['Embarked\_at\_S', 'Not\_Survived', 'Pclass3'] 286

## (b) IBM Quest Data Generator dataset

### ◆ [nitems\_0.1, ntrans\_0.1], min support = 15%, Spent Time:0.0191 s

Number of items = 100, Number of transactions in database = 100, Avg transaction len = 10  
[93 item(s), 99 transaction(s)]

#### ➔ Results: ([item] count)

Frequent Patterns whose appearance is  $\geq$  min\_support(14):

['38'] 43	['81'] 21	['80'] 17	['38', '63'] 16	['86'] 14
['63'] 32	['8'] 21	['35'] 17	['38', '48'] 16	['62'] 14
['87'] 27	['17'] 20	['3'] 17	['93'] 15	['14'] 14
['36'] 27	['11'] 20	['72'] 16	['89'] 15	['12'] 14
['69'] 26	['43'] 19	['61'] 16	['74'] 15	
['48'] 24	['28'] 19	['40'] 16	['39'] 15	
['85'] 22	['83'] 18		['38', '36'] 15	

### ● [nitems\_0.1, ntrans\_1], min support = 20%, Spent Time:0.0211 s

Number of items = 100, Number of transactions in database = 1000, Avg transaction len = 10  
[99 item(s), 984 transaction(s)]

#### ➔ Results: ([item] count)

Frequent Patterns whose appearance is  $\geq$  min\_support(98):

['38'] 373	['11'] 176	['67'] 147	['89'] 128
['63'] 358	['83'] 167	['38', '87'] 145	['73'] 128
['87'] 348	['80'] 166	['78'] 142	['63', '69'] 116
['69'] 298	['43'] 162	['29'] 142	['7'] 113
['36'] 268	['39'] 157	['38', '63'] 140	['38', '69'] 111
['8'] 227	['9'] 155	['23'] 138	['52'] 109
['48'] 226	['81'] 155	['72'] 136	['63', '36'] 107
['28'] 207	['40'] 155	['51'] 136	['38', '36'] 107
['85'] 198	['14'] 154	['63', '87'] 134	['95'] 106
['3'] 196	['61'] 153	['71'] 133	['21'] 104
['17'] 194	['86'] 152	['35'] 132	['87', '36'] 102
['47'] 176	['62'] 150	['93'] 129	['87', '69'] 101

### ● [nitems\_1, ntrans\_0.1], min support = 5, Spent Time:0.0116 s

Number of items = 1000, Number of transactions in database = 100, Avg transaction len = 10  
[499 item(s), 984 transaction(s)]

#### ➔ Results: ([item] count)

Frequent Patterns whose appearance is  $\geq$  min\_support(4):

['124'] 9	['981'] 5	['36'] 5	['909'] 4	['62'] 4	['425'] 4
['416'] 8	['934'] 5	['316'] 5	['868'] 4	['613'] 4	['395'] 4
['806'] 7	['858'] 5	['306'] 5	['827'] 4	['607'] 4	['371'] 4
['778'] 7	['837'] 5	['238'] 5	['815'] 4	['601'] 4	['368'] 4
['682'] 7	['820'] 5	['132'] 5	['744'] 4	['599'] 4	['360'] 4
['592'] 7	['813'] 5	['127'] 5	['737'] 4	['559'] 4	['325'] 4
['988'] 6	['790'] 5	['123'] 5	['733'] 4	['553'] 4	['246'] 4
['874'] 6	['772'] 5	['119'] 5	['709'] 4	['486'] 4	['221'] 4
['707'] 6	['673'] 5	['117'] 5	['7'] 4	['459'] 4	['209'] 4
['456'] 6	['60'] 5	['970'] 4	['69'] 4	['444'] 4	['173'] 4
['214'] 6	['578'] 5	['959'] 4	['629'] 4	['439'] 4	['154'] 4
['994'] 5	['38'] 5	['946'] 4	['628'] 4	['432'] 4	

(Remaining Results can be found in the [appendix](#) of the report)

## ● 討論:

- 第三筆(nitems\_1, ntrans\_0.1)最後得到的frequent patterns都只有一個element, 推測原因為總item數有1000個, 但transaction只有100個 (平均每筆含10items), 因此重複性太低, 造成support總體而言偏低, min\_support value也需要降低。

- 第二筆(nitems\_0.1, ntrans\_1)和第一筆(nitems\_0.1, ntrans\_0.1)比較, 可以看出因為 transaction數上升(100->1000), 因此重複性提升, frequent patterns中出現大於1個element的數量變多了(以黃底標示), min\_support也提高許多。

## 2. Use association analysis tools to generate association rules

使用 Christian Borgelt 之 Apriori Tools <https://www.filecluster.com/Apriori.html>

### (a) (Kaggle)Titanic: Machine Learning from Disaster

➔ Frequent patterns with same min\_support(20%) as above (item (Sup%))

Embarked_at_S (72.2783)	Embarked_at_S Not_Survived	Male Adult(19~40) (31.6498)
Embarked_at_S Male (49.4949)	Adult(19~40) (24.8036)	Not_Survived (61.6162)
Embarked_at_S Male Not_Survived (40.853)	Embarked_at_S Pclass3 (39.6184)	Not_Survived Pclass3 (41.7508)
Embarked_at_S Male Not_Survived Pclass3 (25.9259)	Embarked_at_S Pclass3 Adult(19~40) (21.0999)	Not_Survived Adult(19~40) (29.4052)
Embarked_at_S Male Not_Survived Pclass3 (25.9259)	Embarked_at_S Adult(19~40) (38.0471)	Pclass3 (55.1066)
Embarked_at_S Male Not_Survived Adult(19~40) (21.7733)	Embarked_at_S Survived (24.3547)	Pclass3 Adult(19~40) (25.0281)
Embarked_at_S Male Pclass3 (29.7419)	Embarked_at_S Female (22.7834)	Adult(19~40) (47.9237)
Embarked_at_S Male Adult(19~40) (25.7015)	Male (64.7587)	Survived (38.3838)
Embarked_at_S Not_Survived (47.9237)	Male Not_Survived (52.5253)	Survived Female (26.1504)
Embarked_at_S Not_Survived Pclass3 (32.0988)	Male Not_Survived Pclass3 (33.67)	Female (35.2413)
	Male Not_Survived Adult(19~40) (25.9259)	Kids(0~8) (25.9259)
	Male Pclass3 (38.945)	Pclass1 (24.2424)
		Pclass2 (20.651)

➔ Association Rules, min\_support ≥ 40%, min\_confidence ≥ 60% (Sup%, Conf%)

Not_Survived <- Embarked_at_S Male(40.853,82.5397)	Embarked_at_S <- (72.2783,72.2783)
Male <- Embarked_at_S Not_Survived(40.853,85.2459)	Not_Survived <- Male(52.5253,81.1092)
Embarked_at_S <- Male Not_Survived(40.853,77.7778)	<b>Male &lt;- Not_Survived(52.5253,85.2459)</b>
Male <- Embarked_at_S(49.4949,68.4783)	Male <- (64.7587,64.7587)
Embarked_at_S <- Male(49.4949,76.4298)	<b>Pclass3 &lt;- Not_Survived(41.7508,67.7596)</b>
Not_Survived <- Embarked_at_S(47.9237,66.3043)	Not_Survived <- Pclass3(41.7508,75.7637)
Embarked_at_S <- Not_Survived(47.9237,77.7778)	Not_Survived <- (61.6162,61.6162)

#### ● 討論:

- 觀察到男性佔64.8%, 事件死亡率為61.6%, S港口上船比例72.3%。
- [男性-S港口上船]、[S港口上船-死亡]、[男性-死亡]、[S港口上船-男性-死亡]相互關聯緊密。
- 若乘客死亡, 很可能是位於最低等級船艙(Pclass3), 也很可能是男性。

### (b) IBM Quest Data Generator dataset

◆ [nitems\_0.1, ntrans\_0.1], min support = 15%, Frequent patterns (item (Sup%))

38 (43.4343)	36 (27.2727)	11 (20.202)	3 (17.1717)	93 (15.1515)
38 63 (16.1616)	69 (26.2626)	17 (20.202)	80 (17.1717)	39 (15.1515)
38 36 (15.1515)	48 (24.2424)	28 (19.1919)	61 (16.1616)	74 (15.1515)
38 48 (16.1616)	85 (22.2222)	43 (19.1919)	40 (16.1616)	
63 (32.3232)	81 (21.2121)	83 (18.1818)	72 (16.1616)	
87 (27.2727)	8 (21.2121)	35 (17.1717)	89 (15.1515)	

◆ [nitems\_0.1, ntrans\_1], min support = 10%, Frequent patterns (item (Sup%))

38 (37.9065)	63 87 (13.6179)	69 (30.2846)	3 (19.9187)	43 (16.4634)
38 63 (14.2276)	63 69 (11.7886)	36 (27.2358)	17 (19.7154)	39 (15.9553)
38 87 (14.7358)	63 36 (10.874)	8 (23.0691)	47 (17.8862)	81 (15.752)
38 69 (11.2805)	87 (35.3659)	48 (22.9675)	11 (17.8862)	9 (15.752)
38 36 (10.874)	87 69 (10.2642)	28 (21.0366)	83 (16.9715)	40 (15.752)
63 (36.3821)	87 36 (10.3659)	85 (20.122)	80 (16.8699)	14 (15.6504)

61 (15.5488)	29 (14.4309)	51 (13.8211)	89 (13.0081)	95 (10.7724)
86 (15.4472)	78 (14.4309)	71 (13.5163)	73 (13.0081)	21 (10.5691)
62 (15.2439)	23 (14.0244)	35 (13.4146)	7 (11.4837)	
67 (14.939)	72 (13.8211)	93 (13.1098)	52 (11.0772)	

◆ [nitems\_1, ntrans\_0.1], min support = 5%, Frequent patterns (item (Sup%))

124 (9.09091)	707 (6.06061)	117 (5.05051)	813 (5.05051)	790 (5.05051)
416 (8.08081)	214 (6.06061)	316 (5.05051)	36 (5.05051)	60 (5.05051)
806 (7.07071)	988 (6.06061)	981 (5.05051)	934 (5.05051)	837 (5.05051)
778 (7.07071)	456 (6.06061)	119 (5.05051)	820 (5.05051)	858 (5.05051)
592 (7.07071)	238 (5.05051)	127 (5.05051)	673 (5.05051)	123 (5.05051)
682 (7.07071)	132 (5.05051)	994 (5.05051)	38 (5.05051)	
874 (6.06061)	306 (5.05051)	578 (5.05051)	772 (5.05051)	

➔ Association Rules (Sup%, Conf%)

◆ [nitems\_0.1, ntrans\_0.1], min\_support = 7%, min\_confidence = 60%

63 <- 38 43 (10.101, 80)	48 <- 38 43 (10.101, 70)	48 <- 63 43 (11.1111, 63.6364)
38 <- 63 43 (11.1111, 72.7273)	38 <- 48 43 (9.09091, 77.7778)	63 <- 48 43 (9.09091, 77.7778)
63 <- 38 35 (10.101, 70)	38 <- 48 (24.2424, 66.6667)	63 <- 62 (14.1414, 64.2857)
38 <- 63 35 (7.07071, 100)	38 <- 14 (14.1414, 71.4286)	87 <- 33 (11.1111, 63.6364)
36 <- 38 43 (10.101, 70)	38 <- 25 (13.1313, 61.5385)	
38 <- 36 43 (9.09091, 77.7778)	43 <- 63 48 (8.08081, 87.5)	

◆ [nitems\_0.1, ntrans\_1], min\_support = 3%, min\_confidence = 50%

63 <- 38 35(3.15041,53.4483)	38 <- 87 62(3.76016,54.4118)	87 <- 63 72(3.04878,54.5455)
38 <- 87 28(4.36992,56.5789)	87 <- 38 29(3.15041,54.386)	63 <- 87 72(3.04878,52.6316)
38 <- 87 11(3.04878,54.5455)	38 <- 87 29(3.15041,56.3636)	87 <- 49(3.65854,50)
87 <- 38 43(3.25203,53.3333)	87 <- 38 71(3.04878,52.6316)	87 <- 55(3.15041,56.3636)
87 <- 38 62(3.76016,54.4118)	38 <- 87 71(3.04878,53.5714)	

◆ [nitems\_1, ntrans\_0.1], min\_support = 3%, min\_confidence = 50%

416 <- 38 (5.05051, 60)	778 <- 214 (6.06061, 50)
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● 討論：

(i) Christian Borgelt之Apriori Tools執行速度比自己撰寫的code還快，可能有做過優化。

(ii) Association Rules

- 一開始使用的參數為Strong Rules(min\_sup=3%, min\_conf=60%)。
- 上述所列出之結果皆為調整後的參數產生之關聯法則，實驗過程受限篇幅，因此不一一列出。
- 第一筆(nitems\_0.1, ntrans\_0.1)因為重複性比較高，因此使用預設參數會有815筆，因此將min\_sup提高至7%，結果精簡為16筆。從結果可以看出，其中有11筆都含有[38]元素，6筆含有[63]，可以猜測這兩個item是最常出現的item之二，參照上面frequent patterns的結果，果然得到38為出現頻率最高、63為頻率第二高的item。
- 第二筆(nitems\_0.1, ntrans\_1)使用預設參數結果為0筆，因此將min\_conf降至50%，推測原因為item數較少，從黃底標示部分可以看出：以[87<-38 29]、[38<-87 29]為例，即使三個element相同、支持度相同，但信心度仍不同，在[87、29]出現的transaction中，亦出現[38]的次數，比含有[38、29]的transaction，亦出現[87]的次數還多。
- 第三筆(nitems\_1, ntrans\_0.1)使用預設參數結果為1筆，調整min\_conf為50%後亦只有2筆。可能原因為item總數較多(1000)，Transaction數量又較少(100)，可能造成item並未全部出現於transaction中的狀況，即使出現可能重複性也不高，因此support與confidence總體來說會較低。

## Appendix: Results of FP-Growth Tree/Route (Tree以縮排為level分級,同縮排為同level)

[Dataset1\(Titanic\)](#) | [Dataset2\(IBM-0.1,0.1\)](#) | [Dataset3\(IBM-0.1,1\)](#) | [Dataset4\(IBM-1,0.1\)](#)

Dataset 1: train.csv w/ min\_support = 178

Tree:

```
<FPNode (root)>  
  <FPNode 'Embarked_at_S' (644)>  
    <FPNode 'Male' (441)>  
      <FPNode 'Not_Survived' (364)>  
        <FPNode 'Pclass3' (231)>  
          <FPNode 'Adult(19~40)' (127)>  
            <FPNode 'Kids(0~8)' (54)>  
          <FPNode 'Pclass1' (25)>  
            <FPNode 'Adult(19~40)' (67)>  
              <FPNode 'Pclass2' (52)>  
                <FPNode 'Pclass1' (15)>  
              <FPNode 'Pclass2' (24)>  
                <FPNode 'Kids(0~8)' (17)>  
                <FPNode 'Pclass1' (11)>  
                <FPNode 'Pclass2' (6)>  
            <FPNode 'Survived' (27)>  
              <FPNode 'Kids(0~8)' (15)>  
                <FPNode 'Pclass2' (9)>  
                  <FPNode 'Pclass1' (6)>  
                <FPNode 'Pclass1' (10)>  
                  <FPNode 'Pclass2' (2)>  
              <FPNode 'Adult(19~40)' (16)>  
                <FPNode 'Survived' (16)>  
                  <FPNode 'Pclass2' (4)>  
                    <FPNode 'Pclass1' (12)>  
                <FPNode 'Pclass3' (34)>  
                  <FPNode 'Adult(19~40)' (19)>  
                    <FPNode 'Survived' (19)>  
                      <FPNode 'Survived' (15)>  
                        <FPNode 'Kids(0~8)' (9)>  
          <FPNode 'Pclass3' (33)>  
            <FPNode 'Adult(19~40)' (20)>  
              <FPNode 'Survived' (20)>  
                <FPNode 'Female' (20)>  
            <FPNode 'Survived' (13)>  
              <FPNode 'Female' (13)>  
                <FPNode 'Kids(0~8)' (8)>  
          <FPNode 'Adult(19~40)' (63)>  
            <FPNode 'Survived' (63)>  
              <FPNode 'Female' (63)>  
                <FPNode 'Pclass1' (25)>  
                <FPNode 'Pclass2' (38)>  
          <FPNode 'Survived' (44)>  
            <FPNode 'Female' (44)>  
              <FPNode 'Pclass1' (17)>  
              <FPNode 'Pclass2' (15)>  
              <FPNode 'Kids(0~8)' (12)>  
                <FPNode 'Pclass2' (8)>  
                <FPNode 'Pclass1' (4)>  
          <FPNode 'Not_Survived' (63)>  
            <FPNode 'Pclass3' (55)>  
              <FPNode 'Female' (33)>  
                <FPNode 'Kids(0~8)' (16)>  
                <FPNode 'Adult(19~40)' (22)>  
                <FPNode 'Female' (22)>  
              <FPNode 'Adult(19~40)' (5)>  
                <FPNode 'Female' (5)>  
                  <FPNode 'Pclass2' (4)>  
                  <FPNode 'Pclass1' (1)>  
            <FPNode 'Female' (3)>  
              <FPNode 'Kids(0~8)' (1)>  
                <FPNode 'Pclass1' (1)>  
              <FPNode 'Pclass2' (2)>  
          <FPNode 'Adult(19~40)' (27)>  
            <FPNode 'Survived' (27)>  
              <FPNode 'Female' (27)>  
                <FPNode 'Pclass1' (22)>  
                <FPNode 'Pclass2' (5)>  
          <FPNode 'Male' (136)>  
            <FPNode 'Not_Survived' (104)>  
              <FPNode 'Pclass3' (69)>  
                <FPNode 'Kids(0~8)' (42)>  
                <FPNode 'Adult(19~40)' (21)>  
              <FPNode 'Adult(19~40)' (16)>  
                <FPNode 'Pclass1' (9)>  
                <FPNode 'Pclass2' (7)>  
              <FPNode 'Pclass1' (12)>  
              <FPNode 'Kids(0~8)' (6)>  
                <FPNode 'Pclass1' (5)>  
                <FPNode 'Pclass2' (1)>  
              <FPNode 'Pclass2' (1)>  
            <FPNode 'Pclass3' (13)>
```

```

        <FPNode 'Survived' (7)>
        <FPNode 'Kids(0~8)' (6)>
        <FPNode 'Adult(19~40)' (6)>
        <FPNode 'Survived' (6)>
    <FPNode 'Adult(19~40)' (10)>
        <FPNode 'Survived' (10)>
        <FPNode 'Pclass1' (10)>
    <FPNode 'Survived' (9)>
        <FPNode 'Pclass1' (6)>
        <FPNode 'Kids(0~8)' (3)>
        <FPNode 'Pclass2' (2)>
        <FPNode 'Pclass1' (1)>
    <FPNode 'Survived' (27)>
        <FPNode 'Female' (27)>
        <FPNode 'Pclass2' (2)>
        <FPNode 'Kids(0~8)' (7)>
        <FPNode 'Pclass1' (5)>
        <FPNode 'Pclass2' (2)>
        <FPNode 'Pclass1' (18)>
    <FPNode 'Pclass3' (39)>
        <FPNode 'Survived' (35)>
        <FPNode 'Female' (35)>
        <FPNode 'Kids(0~8)' (28)>
        <FPNode 'Adult(19~40)' (4)>
        <FPNode 'Survived' (4)>
        <FPNode 'Female' (4)>
    <FPNode 'Not_Survived' (18)>
        <FPNode 'Pclass3' (17)>
        <FPNode 'Female' (13)>
        <FPNode 'Kids(0~8)' (7)>
        <FPNode 'Adult(19~40)' (4)>
        <FPNode 'Female' (4)>
        <FPNode 'Female' (1)>
        <FPNode 'Pclass1' (1)>

```

#### Routes:

```

'Embarked_at_S'
    -<FPNode 'Embarked_at_S' (644)>
'Male'
    -<FPNode 'Male' (441)>
    -<FPNode 'Male' (136)>
'Not_Survived'
    -<FPNode 'Not_Survived' (364)>
    -<FPNode 'Not_Survived' (104)>
    -<FPNode 'Not_Survived' (63)>
    -<FPNode 'Not_Survived' (18)>
'Pclass3'
    -<FPNode 'Pclass3' (231)>
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#####

Spent Time:0.012546062469482422 s

#####

### [Back to the Top of the Results](#)

Dataset 2: data.nitems\_0.1.ntrans\_0.1 min\_support = 14

Tree:

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Routes:

[illegible]

[illegible]

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#####

Spent Time:0.019076824188232422 s

#####

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Dataset 3: data.nitems\_0.1.ntrans\_1 w/ min\_support = 98

Tree:

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