tid	itemset
t1	ACDEF
t2	ABCDE
t3	BCF
t4	ACDEF
t5	DB

minsup = 3

step 1

sort items descending by support

item	support
C	4
D	4
A	3
B	3
E	3
F	3

step 2

sort items in transaction in descending order of support

tid	itemset
t1	CDAEF
t2	CDABE

tid	itemset
t3	CBF
t4	CDAEF
t5	DB

step 3

construct FP-tree (R) by adding each of the transactions
this serves as an index in lieu of original db
See fig. R in attachement.

step 4

See respective figures in attachement.

R_F

paths	count
CBF	1
CDAEF	2

R_E

paths	count
CDAE	2
CDABE	1

R_B

paths	count
DB	1

paths	count
CDAB	1
CB	1

R_A

paths	count
CDA	3

R_D

paths	count
D	1
CD	3

R_C

paths	count
C	4

step 5

Frequent patterns:

F:
{FC(3)}

E:
{EC(3),ED(3),EA(3),ECD(3),ECA(3),EDA(3),ECDA(3)}

A:
{AC(3),AD(3),ACD(3)}

B:
{Ø}

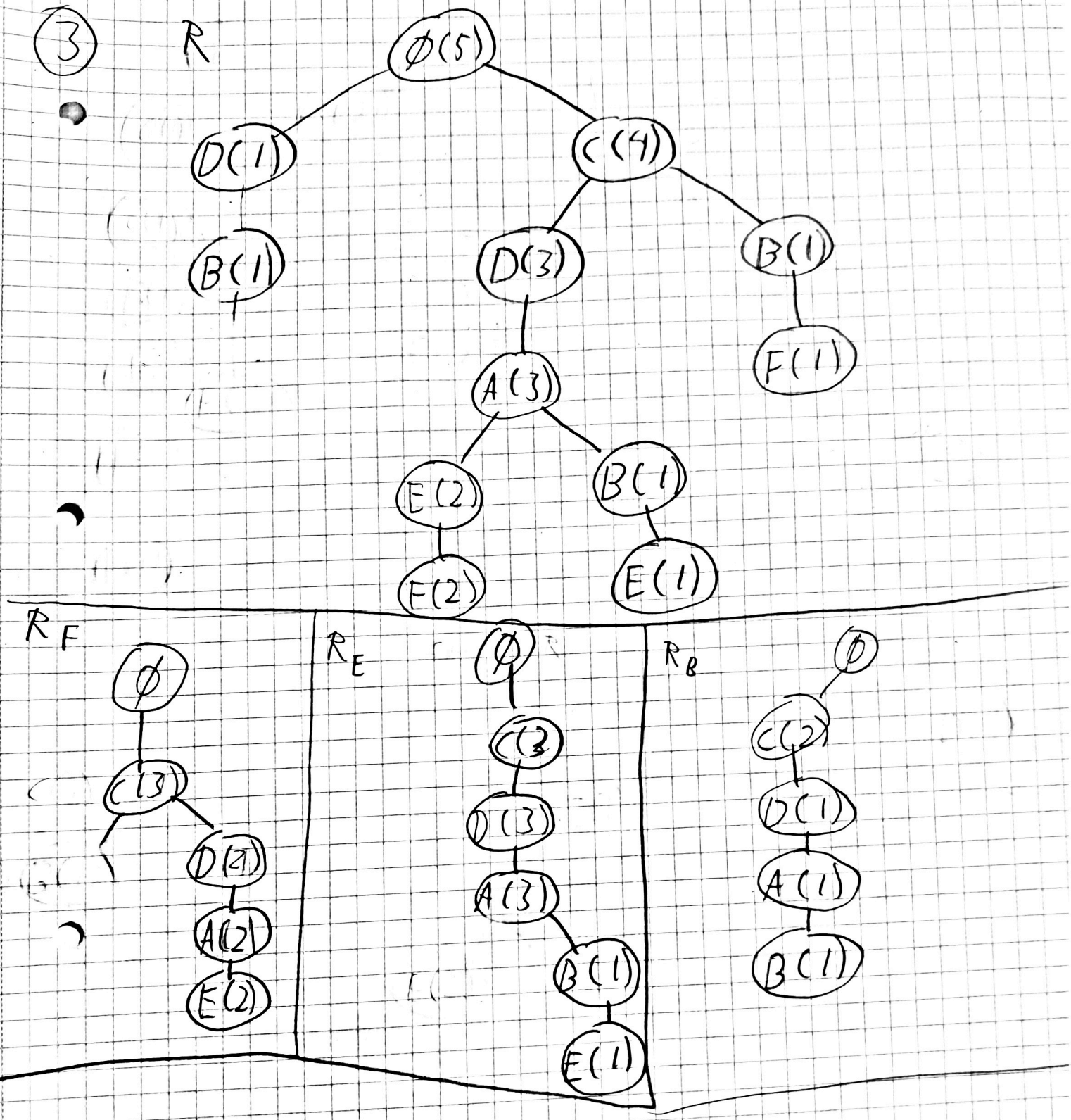
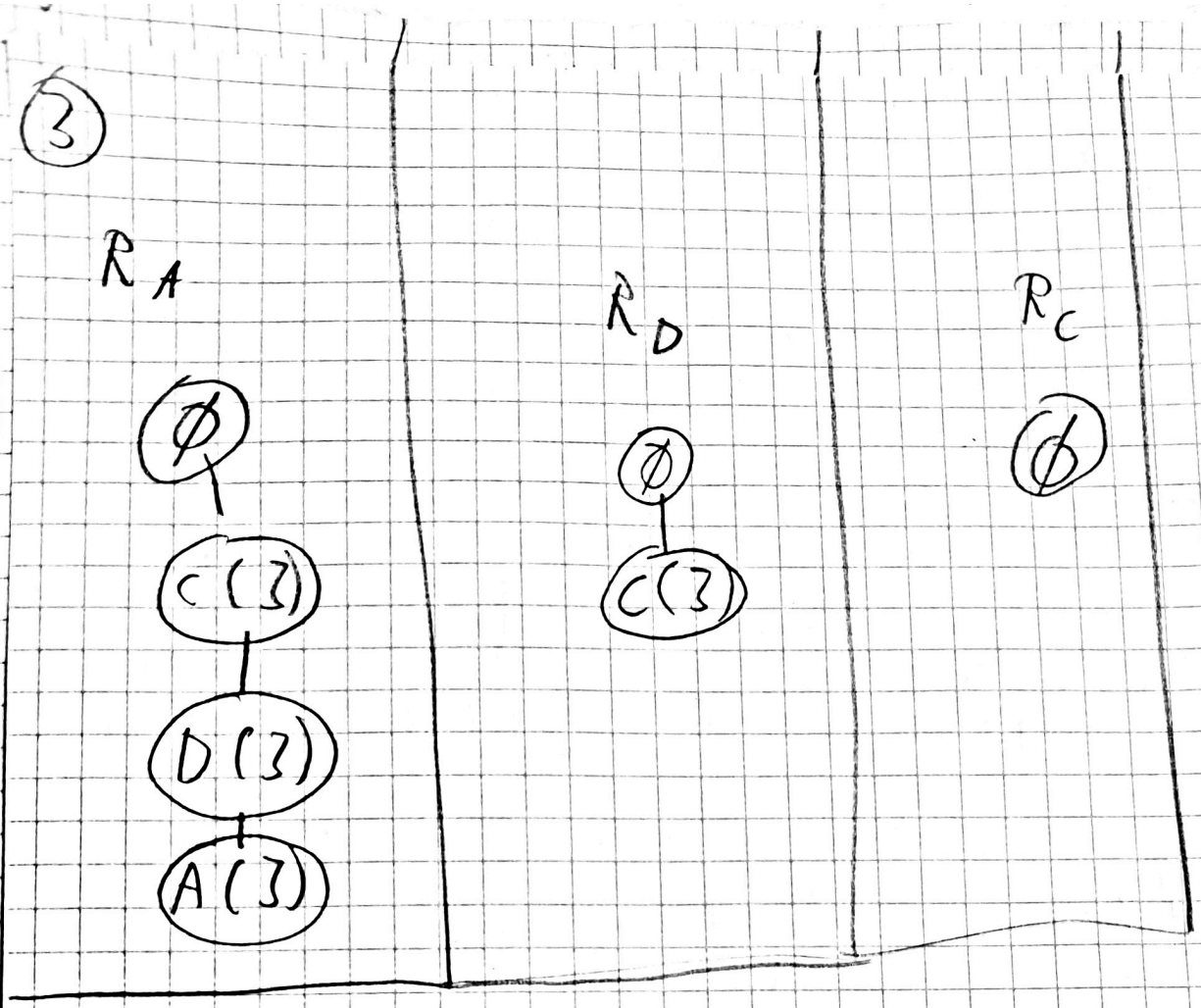
D:

{Ø}

C:

{Ø}

(3)


R
∅(5)
D(1)
C(4)
B(1)
D(3)
B(1)
F(1)
A(3)
E(2)
B(1)
F(2)
E(1)
R_F
∅
C(3)
D(2)
A(2)
E(2)
R_E
∅
C(3)
D(3)
A(3)
B(1)
E(1)
R_B
∅
C(2)
D(1)
A(1)
B(1)

(3)