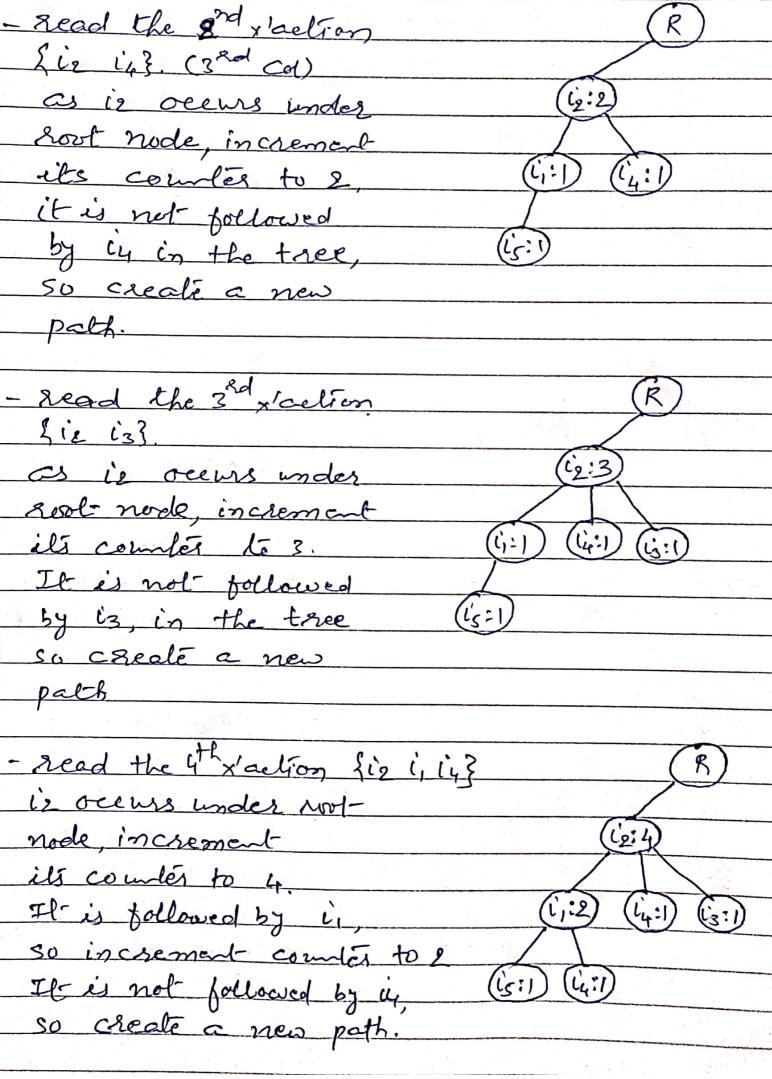
FP Tree Aprivri also Aprivri algo - It is used to finance find frequent itemsels the without generaling candidate sels the and it requires only two detabase seans. - This method x joins the database of g'actions into a tree structure called FP (frequent pattern) tree such that association information bet the date items are is preserved - The method has following steps. (1) Scan the db once & find set of frequent 1-item sets L, (ii) Agrange the prequent items in descending order of poor Support count.

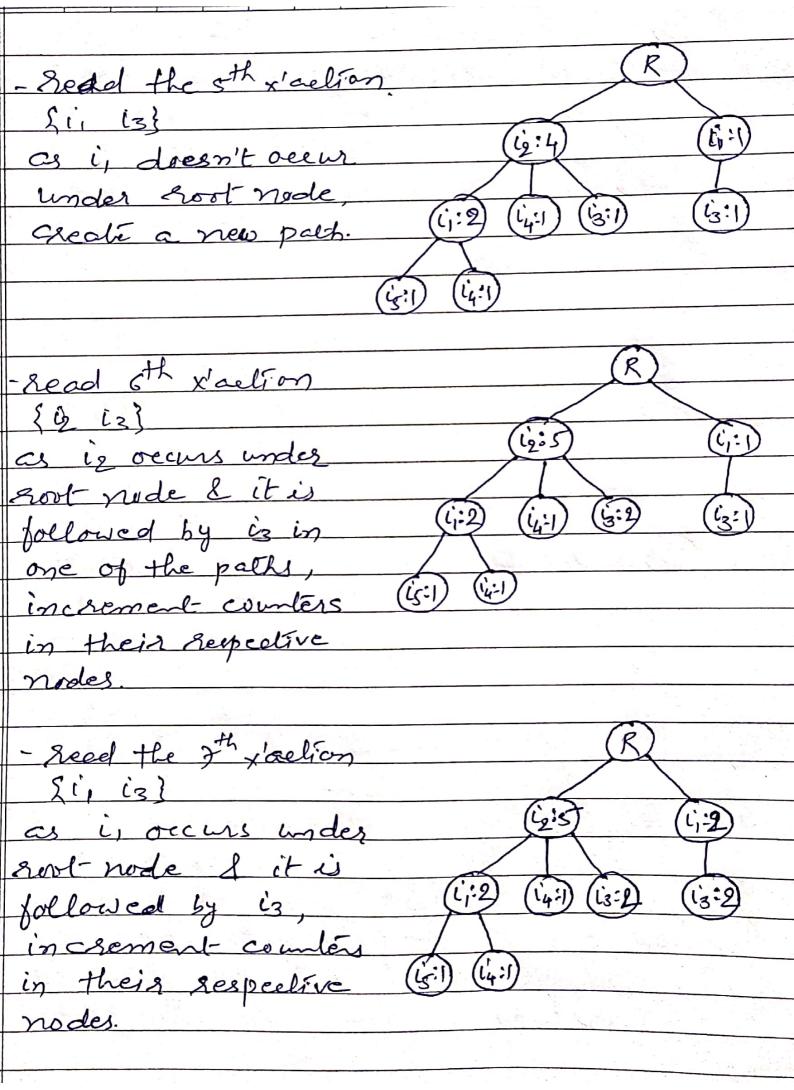
(iii) Scan the db again & construct

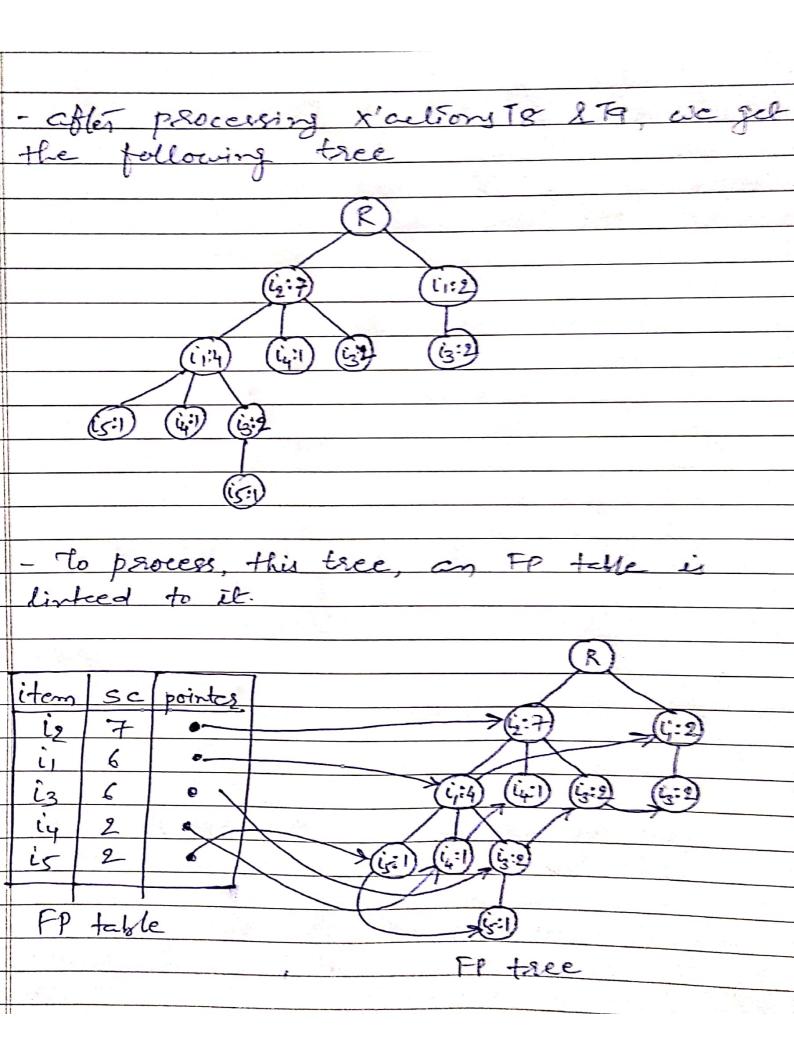
FP tree (iv) For each nude in FP tree, constant conditional pattern base. (v) For each conditional pattern base construet conditional of tree (vi) Mime conditional FP trees, recurs) vely to grow frequent patterns.

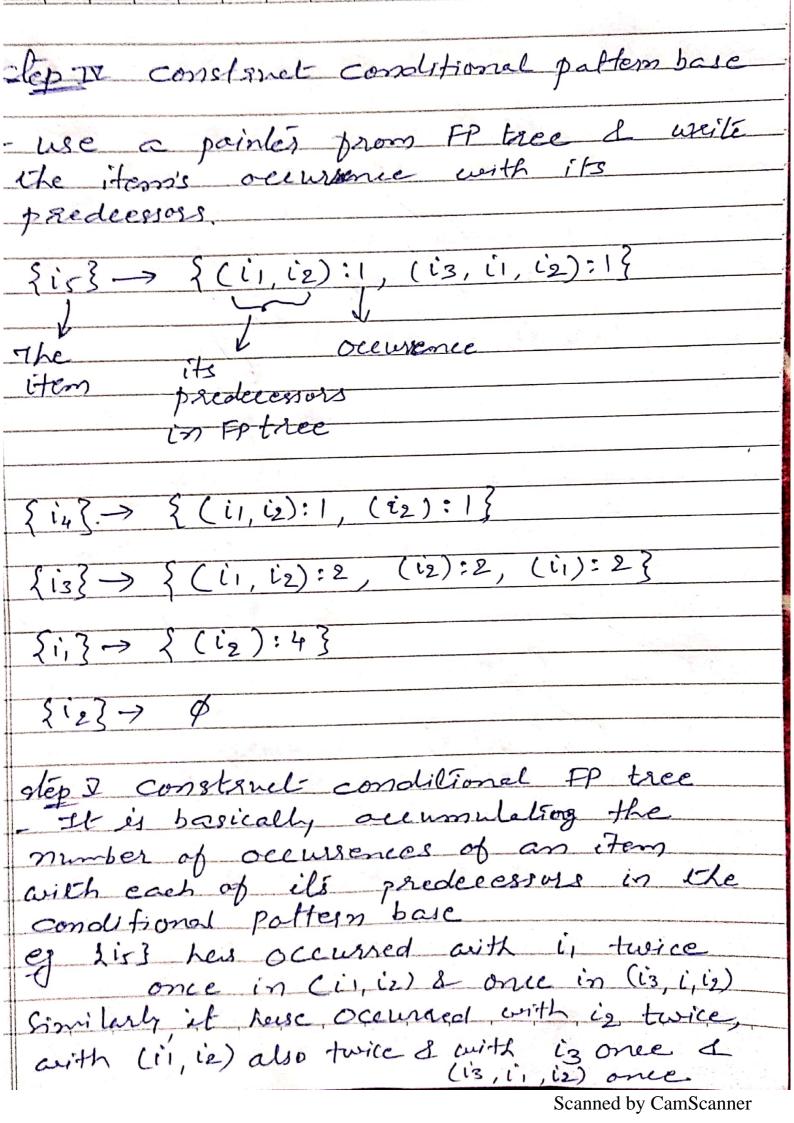
Consider the following set of x'actions. Tid items Ci le is Le lip let min-support = 2 12 13 Ty in is in Ta 7 i is in ie iz is 11 12 13 step 1: Scan the db & find L, C = { {ii} {ii} {ii} {iii} {iii} SC = 6 7 6 2 2 1. L, = { Si, } {ie} { 1is} {iu} { is}} steps: Arrange the frequent items in descending order of SC 1. ig ->7, i, ->6, i3 ->6, i4-72, i->0 Now the frequent items in each x'action must be processed in this order only. For this order and a column "ordered frequent items" in the set of x'actions.

Tid items order	ed frequent items
T (1 (2 (5	i2 i1 i5
	iz in
T3 lg i3	C2 13
Ty is is in	le i, i4
75 i, i3	(1) (3
The color	[2 t'3
72 i, i3	<u> </u>
Ty i, ig is is	i2 i, (3 is
79 1, 12 13	iz i, iz
Step II Scan the DB	again (the 3rd col) &
Constant FP to	ee.
7/. 2 / 52 /	· ————————————————————————————————————
- the xot of 17 tree	is empty. All other
nodes contain on	item & ils occurrence
nodes.	items in predection
rioces.	
- capole - 15 o	(R)
- create empty rest	rice.
- Read the 1st x'action	(P)
(2rd col) & create	
	(i2: 1)
a path in tree	(i:1)
	(4:1)









1. it can be written as, {is}→ {(i1:2), (i2:2), (i1, c2;2), (i3:1), (i3, i:1), (i3, i2:1), (i3, i1, i2 :1)} Now discard the occurrences that don't Salisty the min-Support (2), as given) · \ is} -> \ (i1;2), (i2:2), (i1, i2:2)} Similarly for other items {i4} → {(i2:2)} $\{i_3\} \rightarrow \{(i_1:4), (i_2:4), (i_1,i_29:2)\}$ {i,3 -> {(i2:4)} ₹i2}→ Ø. step I find frequent- patterns add the item with occurrences of its predecessors :. {is} → { (ii, is:2), (i2, i5:2), (i1, i2, is:2)} member member menter of 12 of 12 of 13

Similarly for other items $\{i_3\} \rightarrow \{(i_1, i_3: 4), (i_2, i_3: 4), (i_1, i_2, i_3: 2)\}$ $\{i_1\} \rightarrow \{(i_2, i_1: 2)\}$ 1. L= { {i, is}, {iz, is}, {iz, c, 3}, {iz, c, 3}, {ii, i3}, L3 = { { ii, ie, is} { ii, ie, i3 { } -Unlike Apriori, it is not level cuise of it diesn't generale Cx.