

3 8) Public String key Attributes KeyAttributes holds all the key altributes - Eg: ABCEF L from previous Example! 9) Public String [] attr. combons. - attr-combns contains all the possible to 2" combinate eg: Attributes = ABCO. of athibutes. aftr-combre. ABD BCD ABUD

- This is useful for finding keys.

to) Rublic AttrE3 decomposed.

6 This is of type Attro

This contains, tables (Relations of + just like parent table.

decomposed

ABDEG

1). ABLDEF GH

- 4) Public int Y=0.
- 12) Public in Shing Buffer 6 = new Shing Buffer ();

These are useful while filling after-combins.".

is) int h=0.

- useful while filling "keys".

les) int l;

6 number of keys.

15) Private int P=1;

4 this holds the total number

of decomposed Relations.

methods;

i). Private string sort (strings).

- Takes a String, sorts it & returns the sorted

do side

es: i/p = BACDE

ofp ABLDE.

ii) Private shing remove Duplicates (shings)

- ilp = ABCCCDE

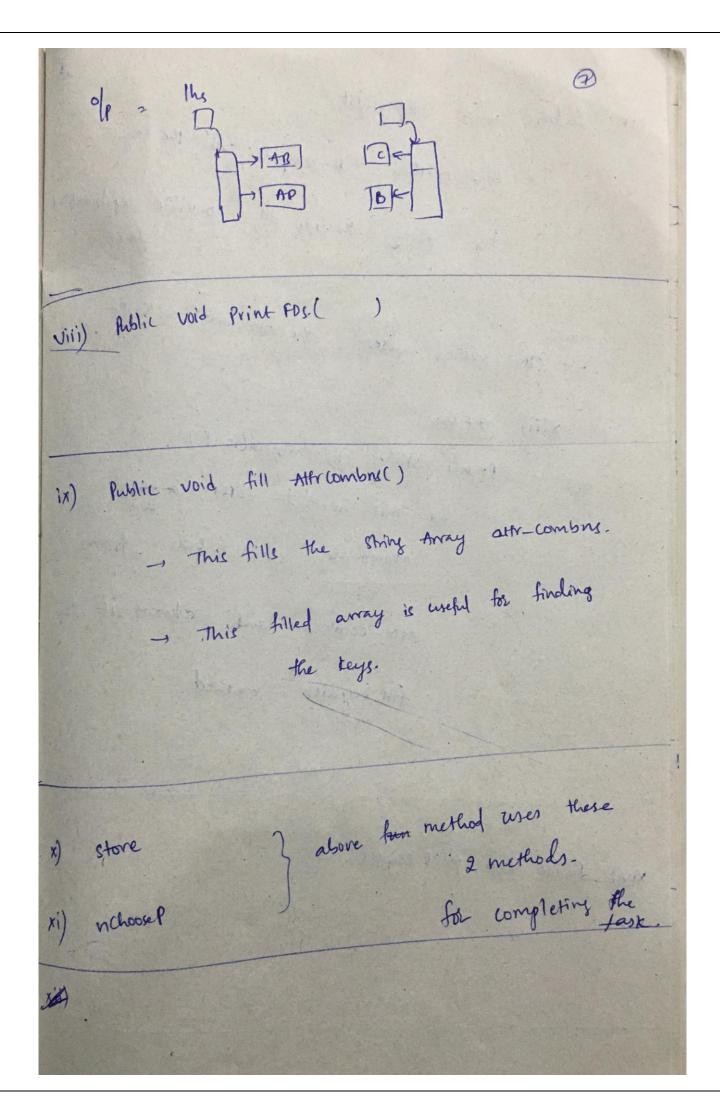
of = ABLDE

iii) Public void remove Redundant FDs (thsc) rhst))

ile in AB -> C

-> ABD > C

olpi → AR → C - null (v) Public void remove Redundant FDs ( lhs, rhs, x) -This is overloaded, - if (x == 1) then it clears inflist also. v) Public void remove null spaces ( lhs, rhs, x ) This removes null spaces that are created in above methods vi) Public void foldclosure ( - calculates For closure Public void fill FDS ( -) vii) . This takes the FDs & in shing format & splits them & stones in & different Strings. Eg! i/1 ; i) "AB → c"



nii) Public void fillkey List ()

\_, This method & computer all the keys

\_, this method & computer all possible Combinably
by going through all possible Combinably

Convince methods.

-, This method uses the following methods.

xiii) get con

Private shing get combination()

Ly This method takes a com
an

appropriate combination from

attr-combns and returns it to

"fin key list" method,

xiv) Public void print keys ()

xv) Public bodean isAkey()

xvi) Public boolean isAkey Attribute().

The above & methods are useful while finding the Normal form.

xuii) Public void fill Normal Form List ()

- attaches a normal form to every FD. in

· xviii) Public void Print NF()

NF = Normal form.

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In order to increase the NF, this

method duomposes the table &

stores the slow decomposed febles

in Attr[].

xx) Public void PrintRel()

- pronts at all the decomposed Relations

xxi) Public void Complete Formalities ().

- i) computes FD closure
- -, ii) computer minimal keys
- iii) computes Normal form of every FD.

by invoking necessary method.

if (task. equals ("print"))

- it prints the above '3' things,

xxii) Public boolean calculate Frelksure.... original() Calinatu Fo closure from decomposed rels K compares it with original so dossure.