Pata record: Name: char[30]

Age: int 32

Id: int 32

			Primary Leg							
Scondary ideat index					Primary Filey			Male/Femak Sitmap		
Block		Primars her	(Is)	Block	Name	-00	آط		M/F	
101	3 11 13	6 1 15	Primary Block 1 Id	1866 Pt 71	Marie Jan Petr	32 11 26	1		0.0	
102	18 26 27	5 2 9	10 2 4	0 2	Filip Karel Lucia	29 36 18	3 9 5		0000	
103	29 32 36	304	11 8	3 3 4 5 4	Dither Roman Vlasta	3 55 78 27	8			
104	46 46	10 13	12 12	3 2 3 5	Marta Olga Ivan	32 53	10 11		1 10	
105	53 55 61 78	11 9 14 8	[7	Adam	46 61 73	73 74 15		0 :	

Secondary direct index Primary files V Primary key Block 1 ase Block Block Ptr Age >0 Marie Jan Petr Parel Filip Karel Lucia 32 36 Roman Vlasta Marta 6,2 Olga Ivan 53 551 38 Adam Son a Isor

3) Velilosti vetsich dat Pala record: lone: char[30] - 30B

Age: int 32 - 4B

Id: int 32 - 4B 38 B b prim. tik = \(\frac{4096}{38} \) = 107 hrecords = 5.106 nstocks = \[\frac{5.106}{5} = 467 290\] Size princeile = Moscoch · 4k:B = = 467 290 · 4096 = 1,914011,840 B=1.786:B Prin index record: Id: int 32 -4B Ptr: in+32 - 403 $5 \text{ prin. index} = \frac{4096}{512} = 512$ $h_{blocks} = \frac{467290}{512} = 913$ Size prin. index = 91304096 = 3739 648 B lookup = bin search over ID+1= O(log 2 913) +1 Sec. direct index: $b = \frac{4096}{8} = 512$ ptr-4B 8B home = 5.106]: 97657 Size Sec. direct index = 97656.4096 = 400 003 072B loolup: bin search over age +1 = 0(/09,97657)+1

Secondary indirect index record:

GSE: inf31 - 413

Id: in132 - 413 => Same as in the

Case of direct idx lookup: binany search over age + = 0 (log2 97657) + 0 (log2 913) +1 Bitmap record: M/F: bool - 1bit = 0.125B Sitnat = 4096 = 32768 $h_{600cls} = 5.10^{6} = 15.26$ Size Sitnap = 4096, 1526 = 6 250 496 B