

Muhammad Azhar Alauddin

201524013

1A – D4 Teknik Informatika

NOMOR 1 – Indexed Sequential

STEP

1. Insert Carudin

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File Organization

1. Blocking Factor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	Carudin			
	2				
	3				
	4				
52	1				
	2				
	3				
	4				
53	1				
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1				
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

2. Insert Fitria

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File organization

1. Blocking Faktor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	Corudin			
	2	Fitria			
	3				
	4				
52	1				
	2				
	3				
	4				
53	1				
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1				
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

3. Insert Dewi dan pergeseran ke bawah

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File organization

1. Blocking Faktor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	Corudin			
	2	Dewi			
	3	Fitria			
	4				
52	1				
	2				
	3				
	4				
53	1				
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1				
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

4. Insert A Cong dan pergeseran ke bawah

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File Organization

1. Blocking Faktor 4, Nomor Index Primary Area = S1, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
S1	1	A Cong			
	2	Coruchin			
	3	Dawn			
	4	Fitria			
S2	1				
	2				
	3				
	4				
S3	1				
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1				
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

5. Insert Rian dan Tini secara bersamaan, karena tidak ada pergeseran

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File Organization

1. Blocking Faktor 4, Nomor Index Primary Area = S1, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
S1	1	A Cong			
	2	Coruchin			
	3	Dawn			
	4	Fitria			
S2	1	Rian			
	2	Tini			
	3				
	4				
S3	1				
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1				
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

6. Insert Riska dan pergeseran Tini ke bawah

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File Organization

1. Blocking Faktor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	A Long			
	2	Corruption			
	3	Down			
	4	Fieria			
52	1	Rion			
	2	Riska			
	3	Tini			
	4				
53	1				
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1				
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

7. Insert Ujang dan Yulia dan tidak ada pergeseran

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File Organization

1. Blocking Faktor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	A Long			
	2	Corruption			
	3	Down			
	4	Fieria			
52	1	Rion			
	2	Riska			
	3	Tini			
	4	Ujang			
53	1	Yulia			
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1				
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

8. Insert Sitorus dan mengusir Ujang ke Overflow Area

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File Organization

1. Blocking Faktor 4, Nomor Index Primang Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	A. Com			
	2	Coruchin			
	3	Dewi			
	4	Fitria			
52	1	Rian			
	2	Rista			
	3	Sitorus			
	4	Tini			
53	1	Yulia			
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1	Ujang			
	2				
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

9. Insert Djoko dan mengusir Fitria ke Overflow Area

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File Organization

1. Blocking Faktor 4, Nomor Index Primang Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	A. Com			
	2	Coruchin			
	3	Dewi			
	4	Djoko			
52	1	Rian			
	2	Rista			
	3	Sitorus			
	4	Tini			
53	1	Yulia			
	2				
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1	Ujang			
	2	Fitria			
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

10. Insert Yudi dan pergeseran dari yulia ke bawah

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File Organization

1. Blocking Faktor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	A. Com			
	2	Conradin			
	3	Dani			
	4	Doko			
52	1	Rian			
	2	Risto			
	3	Sitorus			
	4	Tini			
53	1	Yudi			
	2	Yulia			
	3				
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1	Wang			
	2	Fitrio			
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

11. Insert Widi dan tidak ada pergeseran

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File Organization

1. Blocking Faktor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	A. Com			
	2	Conradin			
	3	Dani			
	4	Doko			
52	1	Rian			
	2	Risto			
	3	Sitorus			
	4	Tini			
53	1	Yudi			
	2	Yulia			
	3	Widi			
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1	Wang			
	2	Fitrio			
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

12. Penunjuk Ujang dan Fitria di Overflow dengan Pointer

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File Organization

1. Blocking Factor 4, Nomor Index Primary Area = 51, Nomor blok overflow = 81

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
51	1	A Cong			
	2	Rian			
	3	Widi			
	4	Widi			
52	1	Rian			
	2	Riska			
	3	Siforus			
	4	Tini			
53	1	Yudi			
	2	Yulia			
	3	Widi			
	4				

Primary Area

Block	Record	Key / Nama	JK	Nomor Test	Pointer Overflow
81	1	Ujang			
	2	Fitria			
	3				
	4				
82	1				
	2				
	3				
	4				

overflow Area

13. Pembuatan Tabel Index level 1 dan 2

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File Organization

Tabel Index level 2		Tabel Index level 1		
1	A Cong	1	A Cong	51
			Rian	52
			Widi	53

Tabel Index