

ALGORITMA UNTUK PERSOALAN BISNIS (Lanjutan)

Tujuan :

- Memperkenalkan algoritma aplikasi bisnis multilevel control break
- Merancang algoritma untuk memecahkan persoalan bisnis multilevel control break

Multi Level Control Break

Dari soal yang sama pada single level control break, hanya ditambah Departement sehingga Output yang diinginkan sbb:

MULTIDISK COMPUTER Co							
SALES REPORT BY SALESPERSON							
17/04/97						PAGE 1	
DEPT	SALESPERSON NUMBER	SALESPERSON NAME	PRODUCT NUMBER	QTY SOLD	PRICE	EXTENTION AMOUNT	
01	1001	Mary Smith	1032	2	10.00	20.00	
			1033	2	20.00	40.00	
			1044	2	30.00	60.00	
	1002	Chery P Bensa	Sales total for Mary				120.00
			1032	2	10.00	20.00	
			1045	1	35.00	35.00	
			Sales total for Chery				55.00
Sales total for Dept 01				175.00			
02	1050	Jenny Ponds	1033	2	20.00	40.00	
			1044	2	30.00	60.00	
			Sales total for Jenny				100.00
	Sales total for Dept 02				100.00		
	Report sales total				275.00		
BINA NUSANTARA							
September 2000							
Edisi : 1 Revisi : 0							

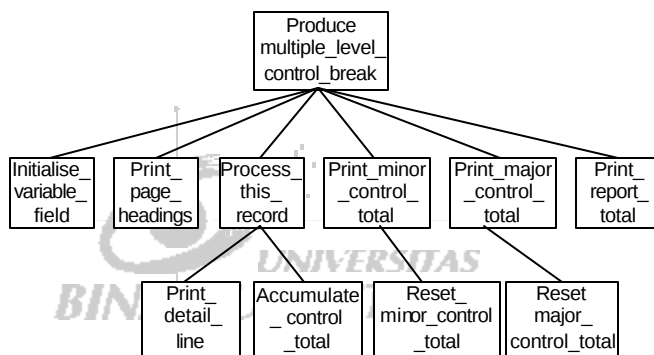
BINA NUSANTARA

Edisi : 1

Revisi : 0

Sept 2000

A. Hierarchy Chart



BINA NUSANTARA

Edisi : 1

Revisi : 0

September 2000

B. Algoritma

Main Program

```

Produce_multiple_level_control_break
Initialise_variable_fields
Print_page_headings
Read first record
this_minor_control_field = minor control field

prev_minor_control_field = minor control
field
this_major_control_field = major control field
prev_major_control_field = major control
field
DO WHILE NOT EOF
  IF this_major_control_field NOT =
    prev_major_control_field
  THEN
    Print_minor_control_totals
    prev_minor_control_field =
    this_minor_control_field
    Print_major_control_totals
    prev_maor_control_field =
    this_major_control_field

```

ELSE

```

IF this_minor_control_field NOT =
prev_minor_control_field
THEN

```

```

  Print_minor_control_totals
  prev_minor_control_field =
  this_minor_control_field

```

ENDIF

ENDIF

```

IF linecount > max_detail_lines THEN

```

```

  Print_page_headings
  Set linecount to zero

```

ENDIF

```

Process_this_record

```

```

Read next record

```

```

this_minor_control_field =
minor_control_field
this_major_control_filed =
major_control_field

```

ENDDO

```

Print_minor_control_totals

```

```

Print_major_control_totals

```

```

Print_report_totals

```

END.

BINA NUSANTARA

Edisi : 1

Revisi : 0

September 2000

BINA NUSANTARA

Edisi : 1

Revisi : 0

September 2000

Subordinate Modul

1. Initialise_variable_fields

```

Open file
Set minor control total accumulators to zero
Set major control total accumulators to zero
Set report total accumulators to zero
Set pagecount to zero
Set linecount to zero
Set max_detail_lines to designated value

```

END.

2. Print_page_headings

```

Increment_page_counter
Print heading lines
Print column heading lines
Print blank line (if required)

```

END.

3. Process_this_record

```

Perform necessary calculation (if any)
Print_detail_line
Accumulate_control_totals

```

END.

4. Print_minor_control_totals

```

Build minor control total line
Print minor control total line
Print blank line (if required)
Increment linecount
Reset_minor_control_totals

```

END.

5. Print_major_control_totals

```

Build major control total line
Print major control total line
Print blank line (if required)
Increment linecount
Reset_major_control_totals

```

END.

6. Print_report_totals

```

Build report total line
Print report total line

```

END.

7. Print_detail_line

```

Build detail line
Print detail line
Increment linecount

```

END.

BINA NUSANTARA

Edisi : 1

Revisi : 0

September 2000

BINA NUSANTARA

Edisi : 1

Revisi : 0

September 2000

8. Accumulate_control_totals
Increment minor control total ccumulators
END.
9. Reset_minor_control_totals
Add minor control total accumulators to major
control total accumulators
Set minor control total accumulator to zero
END.
10. Reset_major_control_totals
Add major control total accumulators to report
total accumulators
Set major control total accumulator to zero
END.

Bila Control Break ditambah satu Level lagi

Maka bisa tetap menggunakan Algoritma di depan hanya ada penambahan / perubahan pada main program yaitu setelah DO WHILE NOT EOF ditambahkan / diganti dengan statement-statement sbb:

```
IF this_major_control_field NOT =
prev_major_control_field THEN
    Print_minor_control_totals
    Prev_minor_control_field = this_minor_control_field
    Print_intmed_control_totals
    Prev_intmed_control_field =
this_intmed_control_field
    Print_major_control_totals
    Prev_major_control_field = this_major_control_field
ELSE
    IF this_intmed_control_field NOT =
prev_intmed_control_field THEN
        Print_minor_control_totals
        Prev_minor_control_field =
this_minor_control_field
        Print_intmed_control_totals
        Prev_intmed_control_field =
this_intmed_control_field
    ELSE
```

```
IF this_minor_control_field NOT =
Prev_minor_control_field THEN
    Print_minor_control_totals
    Prev_minor_control_field =
this_minor_control_field
ENDIF
ENDIF
ENDIF
```

