Laporan Praktikum Jobsheet 3: Database Analytical

Mata Kuliah: Data Warehouse

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Laporan Proses Transformasi Data di Pentaho

A. Dimensi Waktu

Step Metrikmya

Zzz												
# ^	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)
3	Calculator	0	1825	1825	0	0	0	0	0	Finished	0.0s	70,192
4	Select values	0	1825	1825	0	0	0	0	0	Finished	0.0s	50,694
5	Database lookup	0	1825	1825	0	0	0	0	0	Finished	0.8s	2,395
6	Filter rows	0	1825	1825	0	0	0	0	0	Finished	0.8s	2,343
7	Table output	0	1825	1825	0	1825	0	0	0	Finished	1.0s	1,911

Proses Objectnya

Proses Object	Field Input											Keterangan Perubahan					
Genera te Rows	(kc	osong)								p fields and their or me: Generate Row Fieldname CurrentDate	s	ength .		Step origin Generate Rows	Storage normal	Mask dd-MM-yyyy	Membuat data awal tanggal 01-01-2003
Add Sequen ce	Step na Fields:	Fieldname CurrentDate	Type Date	Length -	Precision -	Step origin Generate Rows	Storage normal	Mask dd-MM-yyyy	Step r Fields # ^ 1 2		Type Date Integer	Length -	Precision - 0	Step origin Generate Rows Add sequence	Storage normal normal	dd-MM-yyy	Menambahkan angka berurutan 0-1824 sebagai offset hari

Calcula	Step n Fields:	ame: Calcu	ulator										Step na Fields:												Menghitung tanggal hasil		
tor	1 2	Fieldnar Current increme	Date	Type Date Intege	Len - er -	gth Precis	(Step origin Generate R Add seque		Storage normal normal		ММ-уууу	1 2 3 4 5	Fieldname CurrentDate incrementDay streamDate streamYear streamMonth streamDay	Type Date Integer Date Integer Integer Integer Integer	Length	Precision - 0 - 0 0 0 0	Step origin Generate Rows Add sequence Calculator Calculator Calculator Calculator Calculator	Storage normal normal normal normal normal	Mask dd-MM-yyy; ≢;-#	Decimal .	Group	Trim none none none none none none	ADD_DAYS YEAR_OF_DATE MONTH_OF_DATI DAY_OF_MONTH	penambahan dan memecah menjadi tahun, bulan, hari		
Select	Fields:	e: Select values											Step n Fields:	ame: Select value											Menghapus field bantu:		
Values	# ^ 1 2 3 4 5 6	Fieldname CurrentDate incrementDay streamDate streamYear streamMonth streamDay	Type Date Integer Date Integer Integer Integer	Length	Precision 0 0 0 0 0 0 0 0 0	Step origin Generate Rows Add sequence Calculator Calculator Calculator Calculator	Storage normal normal normal normal normal	Mask dd-MM-yyyy #;-#	Decimal .	Group	none I	ADD_DAYS YEAR_OF_DATE MONTH_OF_DATE DAY_OF_MONTH	# ^ 1 2 3 4	Fieldname streamDate streamYear streamMonth streamDay	Type Date Integer Integer Integer	Length - - -	Precision - 0 0 0	Step origin Calculator Calculator Calculator Calculator	Storage normal normal normal	Mask	Decimal	Group	Trim none none none	Comments ADD_DAYS YEAR_OF_DATE MONTH_OF_DATE DAY_OF_MONTH	CurrentDate dan incrementDay		
Databa	Step name: Database lookup Fields:														kup										Mencocokkan dengan		
se Lookup	# ^ 1 2 3 4	Fieldname streamDate streamYear streamMonth streamDay	Type Date Integer Integer	Length - - -	Precision - 0 0 0 0	n Step origin Calculator Calculator Calculator Calculator	Storage normal normal normal	Mask	Decimal		none YE	omments DD_DAYS EAR_OF_DATE IONTH_OF_DATE AY_OF_MONTH	# ^ 1 2 3 4 5 6 6 7 8 8	Fieldname streamDate streamYear streamMonth streamDay date year month day	Type Date Integer Integer Integer Date Integer Integer Integer	Length 9 9 9	Precision - 0 0 - 0 0 0 - 0 0 0 0 0 0 0 0 0 0 0	Step origin Calculator Calculator Calculator Calculator Database looku Database looku Database looku Database looku	ip norma	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Decimal	Group	Trim none none none none none none none non	date year month	data di tabel dimdate		
Filter	Step nar Fields:	ame Filterows											Step name: Filter rows Fields:											Menyaring data			
Rows	# ^ 1 2 3 4 5 6 7 8	Fieldname streamDate streamYear streamMonth streamDay date year month day	Type Date Integer Integer Integer Date Integer Integer Integer Integer Integer	Length 9 9 9	Precision . 0 0 0 . 0 0 0 0 . 0 0 0 0	Step origin Calculator Calculator Calculator Calculator Calculator Database looku Database looku Database looku	normal normal		Decimal	Group	none M none D none d	omments DD_DAYS EAR_OF_DATE RONTH_OF_DATE AY_OF_MONTH ate acer aconth ay	# ^ 1 2 3 4 5 6 7 8	Fieldname streamDate streamYear streamMonth streamDay date year month day	Type Date Integer Integer Integer Date Integer Integer Integer Integer Integer	Length 9 9	Precision - 0 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Step origin Calculator Calculator Calculator Calculator Calculator Database lookup Database lookup Database lookup	p norma p norma		Decimal	Group	Trim none none none none none none none non	Comments ADD_DAYS YEAR_OF_DATE MONTH_OF_D, DAY_OF_MONT date year month day	berdasarkan kondisi tertentu (misalnya hanya data tahun tertentu saja).		
Table	Step name: Table output Fields:													Step name: Table output Fields:										Menyimpan hasil akhir			
Output	1 2 3 4 5 6 7 8	Fieldname streamDate streamYear streamMonth streamDay date year month day	Type Date Integer Integer Integer Date Integer Integer Integer Integer Integer	Length	Precision	Step origin Calculator Calculator Calculator Calculator Calculator Database look Database look Database look Database look	p norma	al al al al	Decimal	Group	none none none none none	Comments ADD_DAYS YEAR_OF_DATE MONTH_OF_DATE DAY_OF_MONTH date year month day	# ^ 1 2 3 4 5 6 7 8	Fieldname streamDate streamYear streamMonth streamDay date year month day	Type Date Integer Integer Integer Date Integer Integer Integer Integer Integer	Length 9 9 9	Precision - 0 0 - 0 0 - 0 0 - 0 0 0 0	Step origin Calculator Calculator Calculator Calculator Calculator Database looku Database looku Database looku Database looku	p norma	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Decimal	Group	Trim none none none none none none none	YEAR_OF_DAT MONTH_OF_D DAY_OF_MON date year month	transformasi ke database tujuan.		

B. Dimensi Pegawai

Execu	ution Results											
🕒 Exe	cution History 🕼 Loggin	ig 🥬 Step Metr	rics 🔀 F	erformance	Graph							
Ž.												
# ^	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)
1	Table input	0	0	23	23	0	0	0	0	Finished	0.0s	3,286
2	Select values	0	23	23	0	0	0	0	0	Finished	0.0s	958
3	Database lookup	0	23	23	0	0	0	0	0	Finished	0.0s	605
4	Filter rows	0	23	23	0	0	0	0	0	Finished	0.0s	535
5	Table output	0	23	23	0	23	0	0	Activ o a	t Enished 100)WS 0.1s	371

- Jika proses itu di ulangi (di run kembali) apakah data akan redudant? tidak akan terjadi duplikasi. Karena kita pakai **Database Lookup + Filter Rows** untuk mengecek apakah datar **sudah ada di tabel dimEmployees** apa belum.
- Tambahkan nama anda pada table employee di OLTP. jalankan kembali transformasi ini. Amati hasilnya, apa yang terjadi?

Muncul

