BAB IV
KEGIATAN YANG MENJADI TOPIK PELAPORAN

Kegitan yang dilakukan selama kerja praktek adalah merancang data base dengan menggunakn SQL server untuk membuat sebuah laporan revenue/pendapatan PT.Telkom. Dalam merancang sebuah database dalam SQL Server, langkah pertama yang dilakukan adalah dengan membuat tabel-tabel yang diperlukan didalam sebuah database. Tabel-tabel tersebut yang telah diberi nama adalah sebagai berikut:



Tabel 3.1 cf-group1

Name	Data Type	Size(...	Nulls
c_group1	char	3	
vc_nama_group1	varchar	30	
i_group	int	4	
vc_nama_group	varchar	20	

Tabel 3.2 cf_group

Name	Data Type	Size(...	Nulls
c_group2	char	1	
vc_nama_group2	varchar	50	
i_group	int	4	
vc_nama_group	varchar	20	

Tabel 3.3 cf-group3

Name	Data Type	Size(...	Nulls
c_group3	char	4	
vc_nama_group3	varchar	30	
i_group	int	4	
vc_nama_group	varchar	20	

Tabel 3.4 cf-group4

Name	Data Type	Size(...	Nulls
c_group4	char	6	
vc_nama_group4	varchar	40	
i_group	int	4	
vc_nama_group	varchar	20	

Tabel 3.5 cf-group5

Name	Data Type	Size(...	Nulls
c_group5	char	8	
vc_nama_group5	varchar	40	
i_group	int	4	
vc_nama_group	varchar	20	

Tabel 3.6 cf_revenue

Name	Data Type	Size(...	Nulls
vc_kode_akun	varchar	12	
c_group1	char	3	
c_group2	char	1	
c_group3	char	4	
c_group4	char	6	
c_group5	char	8	

Tabel 3.7 t_rev03

Isi tabel

Tabel 3.8 cf_group1

c_group1	vc_nama_group1	i_group	vc_nama_group
or	operating revenue	1	revenue
nor	Non operating reve	1	revenue
be	beban operasi	2	beban
bno	beban non operasi	2	beban

Tabel 3.9 cf-group2

c_group2	vc_nama_group2	i_group	vc_nama_group
A	Pendapatan Pulsa	1	revenue
B	Pendapatan Interkoneksi	1	revenue
C	Pendapatan Abonemen	1	revenue
D	Pendapatan Wartel	1	revenue
E	Pendapatan jasbel lainnya	1	revenue
A	Personal	2	beban
B	Operation Maintenance Service	2	beban
C	Interkoneksi	2	beban
D	General Administrative	2	beban
E	Marketing	2	beban

Tabel 3.10 cf-group3

c_group3	vc_nama_group3	i_group	vc_nama_group
b001	Lokal PSTN-Seluler	1	revenue
b002	SLJJ PSTN-Seluler	1	revenue
b003	Airtime	1	revenue
b004	SELULER (IC)	1	revenue
b005	SLI	1	revenue
b006	VOIP/ITKP	1	revenue
c001	Monthly Subscription Charges	1	revenue
c002	Instalation Charge/PSB	1	revenue
e001	Pendapatan Interlokal	1	revenue
e002	Pendapatan TTKU & TUS	1	revenue
e003	Bebas Pulsa & Restitusi	1	revenue
e004	Magnetic Card Payphone	1	revenue
e005	Coin Payphone	1	revenue
e006	Prepaid Calling Card	1	revenue
e007	Revenue Sharing Arrangement	1	revenue
e008	Pendapatan Telkom save	1	revenue
e009	Pendapatan Telkom Global	1	revenue
e010	New Product	1	revenue
e011	Other Telecommunication	1	revenue
a001	Salaries and Related Allowance	2	beban
a002	Employee Bonuses	2	beban
a003	Sharing Cost	2	beban

Tabel 3.11 cf-group4

c_group4	vc_nama_group4	i_group	vc_nama_group
d00103	Beban Penyisihan Persediaan	2	beban
d00501	Security	2	beban
d00502	Screening	2	beban
d01401	Other Administration	2	beban
d01402	Social Aids	2	beban
d01403	Public Relation	2	beban
d01404	Non Operation Expenses	2	beban
e00301	Sales Expenses	2	beban
e00302	Marketing Travelling	2	beban
e00401	Sharing	2	beban
b00501	Akses	1	revenue
b00502	Usage	1	revenue
e00601	Pendapatan TECC & Telepin	1	revenue
e00602	Pendapatan Kartu Sakti	1	revenue
e01001	Telkom SMS	1	revenue
e01002	Telkom Memo	1	revenue

Tabel 3.12 cf-group5

c_group5	vc_nama_group5	i_group	vc_nama_group
e0110401	Pendapatan PASOI	1	revenue
e0110402	Pendapatan TENI	1	revenue
e0110403	Pendapatan IN/JAI	1	revenue
b0010901	Hardware Expense	2	beban
b0010902	Data Communicatio	2	beban
b0010903	Software	2	beban

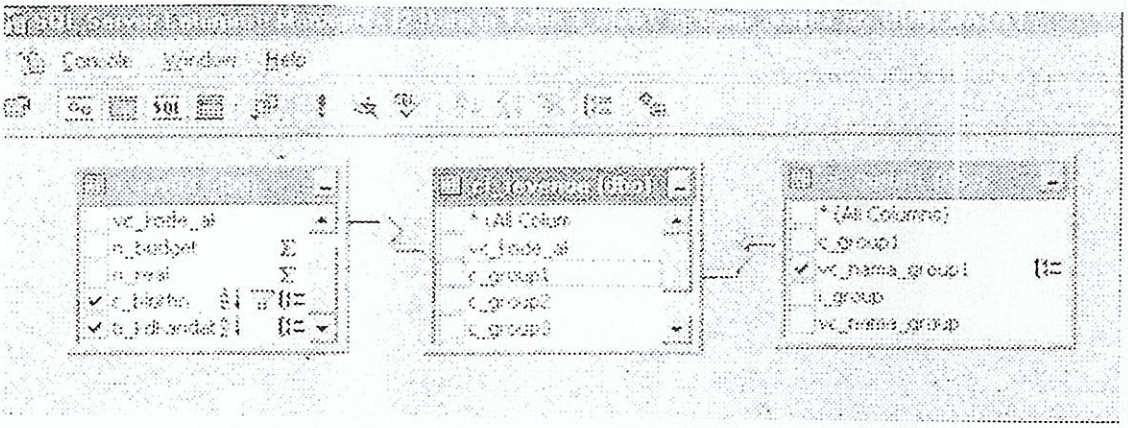
Tabel 3.13 t_rev03

vc_kode_akun	n_budget	n_real	c_blnthn	ti_kdkandatel
4110611119	0	0	012003	1
4110611104	80	0	012003	1
4110611102	20	0	012003	1
4110611101	10	0	012003	1
4110110202	100	200	012003	1
4110110201	900	900	012003	1
4110110102	0	0	012003	1
4110110101	600	600	012003	1
411032131	1.724	0	012003	1
411014219	0	0	012003	1
411014202	600	100	012003	1
411014201	0	0	012003	1
411014119	0	0	012003	1
411014103	0	0	012003	1

Tabel 3.14 cf_revenue

vc_kode_akun	c_group1	c_group2	c_group3	c_group4	c_group5
41101103	or	A	<NULL>	<NULL>	<NULL>
41101104	or	A	<NULL>	<NULL>	<NULL>
411012241	or	B	b001	<NULL>	<NULL>
41101107	or	B	b003	<NULL>	<NULL>
411012229	or	B	b004	<NULL>	<NULL>
411012228	or	B	b004	<NULL>	<NULL>
411012224	or	B	b004	<NULL>	<NULL>
411012225	or	B	b004	<NULL>	<NULL>
411012223	or	B	b004	<NULL>	<NULL>
411012233	or	B	b004	<NULL>	<NULL>
411012235	or	B	b004	<NULL>	<NULL>
411012234	or	B	b004	<NULL>	<NULL>
411012236	or	B	b004	<NULL>	<NULL>
411012212	or	B	b005	b00501	<NULL>
511742	or	B	b005	b00502	<NULL>
41101451	or	B	b006	<NULL>	<NULL>
4110110201	or	C	c001	<NULL>	<NULL>

Tabel-tabel yang dikehendaki tersebut diatas yang telah terisi kemudian direlasikan untuk mendapatkan queri yang dikehendaki.



Gambar 3.1 Relasi tabel t_rev03, cf_revenue, dan tabel cf_group1

- Script SQL untuk menampilkan query dari ketiga table diatas, yaitu tabel t_rev03, cf_revenue, dan tabel cf_group1 adalah sebagai berikut:

  SELECT dbo.cf_group1.vc_nama_group1 AS [NAMA GROUP],
  dbo.t_rev03.ti_kdkandatel AS KANDATEL,
  dbo.t_rev03.c_blnthn AS BULTAG,

```
SUM(dbo.t_rev03.n_budget) AS BUDGET, SUM(dbo.t_rev03.n_real) AS
        REAL
FROM    dbo.t_rev03 INNER JOIN
dbo.cf_revenue          ON          dbo.t_rev03.vc_kode_akun    =
        dbo.cf_revenue.vc_kode_akun INNER JOIN
dbo.cf_group1 ON dbo.cf_revenue.c_group1=dbo.cf_group1.c_group1
GROUP BY dbo.cf_group1.vc_nama_group1,dbo.t_rev03.ti_kdkandatel,
        dbo.t_rev03.c_blnthn
    ORDER BY dbo.t_rev03.ti_kdkandatel,dbo.t_rev03.c_blnthn
```

	NAMA GROUP	KANDATEL	BULTAG	BUDGET	REAL
1	Non operating revenue	1	012003	1310.000	2350.000
2	operating revenue	1	012003	47026.680	917881.412
3	Non operating revenue	1	022003	1290.000	1270.000
4	operating revenue	1	022003	1024690.884	898111.729
5	Non operating revenue	1	032003	1260.000	3003.840
6	operating revenue	1	032003	875852.567	690786.364
7	Non operating revenue	2	012003	1310.000	2350.000
8	operating revenue	2	012003	42876.680	916831.412
9	Non operating revenue	2	022003	1290.000	1270.000
10	operating revenue	2	022003	1021790.884	898811.729
11	Non operating revenue	2	032003	1260.000	3003.840
12	operating revenue	2	032003	332565.238	750895.811

Tabel 3.15 Output dari Script SQL untuk menampilkan query dari ketiga tabel diatas

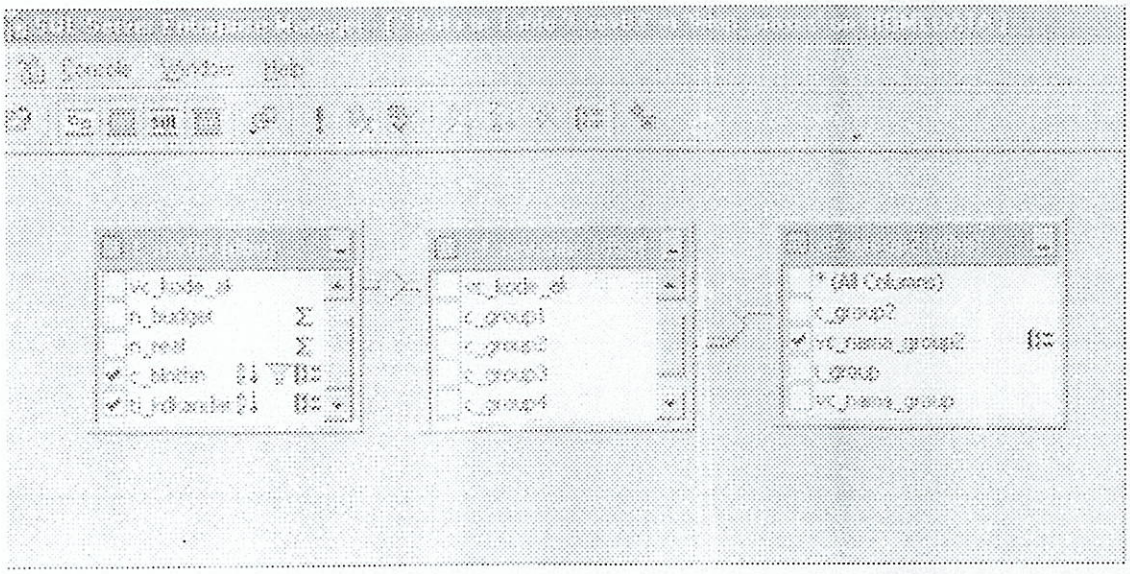
- Script untuk menampilkan field yang dipilih pada bulan tertentu adalah sebagai berikut :

```
SELECT          dbo.cf_group1.vc_nama_group1 AS [NAMA GROUP],
        dbo.t_rev03.ti_kdkandatel AS KANDATEL, dbo.t_rev03.c_blnthn
AS      BULTAG,     SUM     (dbo.t_rev03.n_budget)     AS     BUDGET,
SUM(dbo.t_rev03.n_ real) AS REAL
FROM    dbo.t_rev03 INNER JOIN
        dbo.cf_revenue      ON      dbo.t_rev03.vc_kode_akun =
        dbo.cf_revenue.vc_kode_akun INNER JOIN
```

```
                dbo.vf_group1        ON        dbo.cf_revenue.c_group1  =
    dbo.cf_group1.c_group1
    WHERE       (dbo.trev03.c_blnthn = '012003') OR (dbo.t_rev03.c_blnthn =
                '022003')
GROUP     BY    dbo.cf_group1.vc_nama_group1,      dbo.t_rev03.ti_kdkandatel,
  dbo.t_rev03.c_blnthn
    ORDER BY dbo.t_rev03.ti_kdkandatel, dbo.t_rev03.c_blnthn
```

	NAMA GROUP	KANDATEL	BULTAH	BUDGET	RE
1	Non operating revenue	1	012003	1310.000	223
2	operating revenue	1	012003	47026.680	917381.412
3	Non operating revenue	1	022003	1290.000	1220.000
4	operating revenue	1	022003	1024690.984	899111.729
5	Non operating revenue	2	012003	1310.000	2230.000
6	operating revenue	2	012003	42376.680	916531.412
7	Non operating revenue	2	022003	1290.000	1220.000
8	operating revenue	2	022003	1021790.984	896811.729

Tabel 3.16 Output script diatas



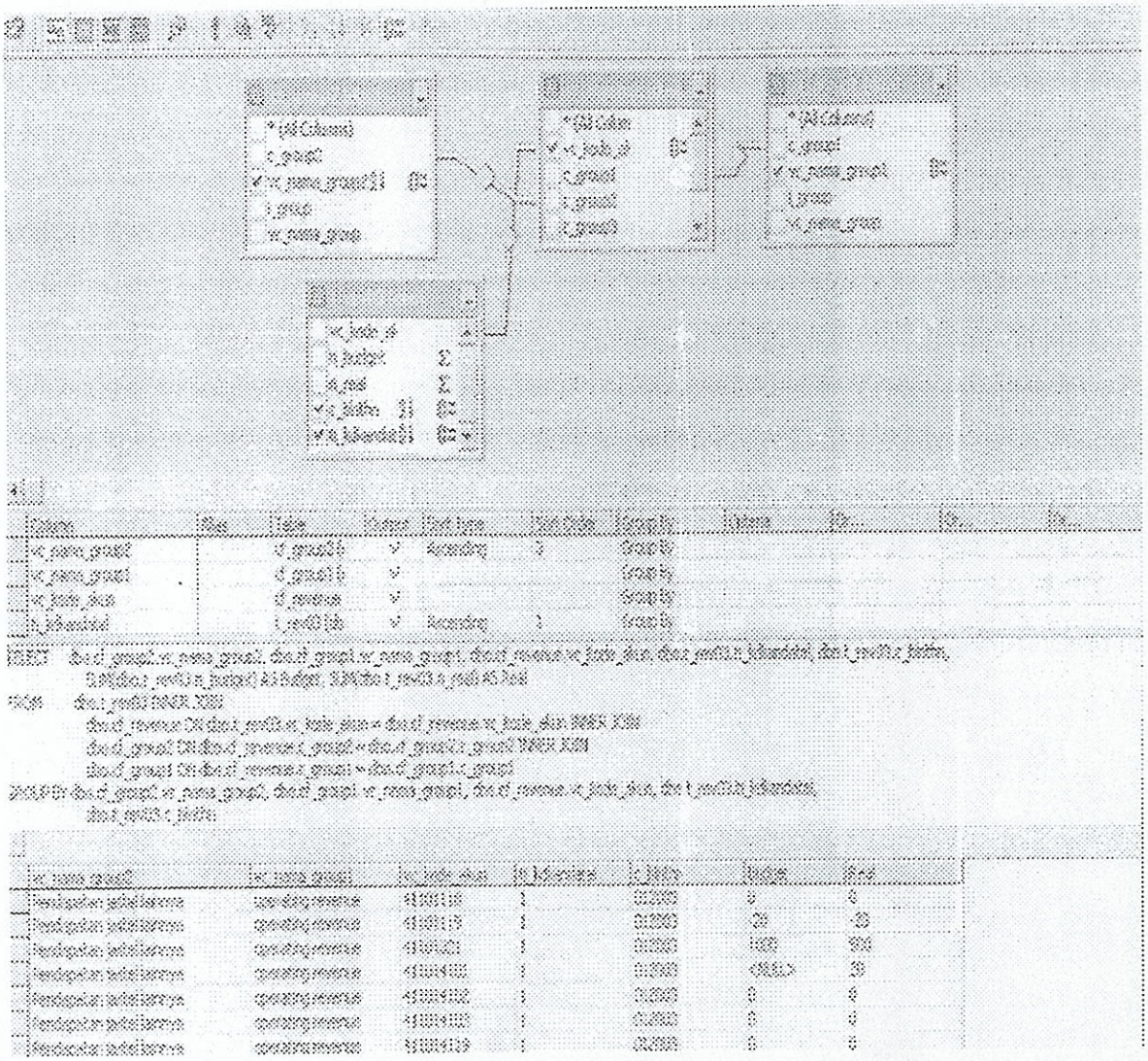
Gambar 3.2. Relasi Tabel t_rev03,cf_revenue dan cf_group2

➢ Script untuk menampilkan query dari tabel t_rev, cf_revenue dan cf_group2 adalah sebagai berikut :

```
SELECT      dbo.cf_group2.vc_nama_group2 AS [NAMA GROUP],
            dbo.t_rev03.ti_kdkandatel AS KANDATEL, dbo.t_rev03.c_blnthn AS
            BULTAG,
            SUM(dbo.t_rev03.n_budget) AS BUDGET, SUM(dbo.t_rev03.n_real)
            AS REAL
FROM        dbo.t_rev03 INNER JOIN
            dbo.cf_revenue      ON    dbo.t_rev03.vc_kode_akun      =
            dbo.cf_group2       ON    dbo.cf_revenue.c_group2       =
            dbo.cf_group2.c_group2
GROUP       BY    dbo.cf_group2.vc_nama_group2,
                  dbo.t_rev03.ti_kdkandatel, dbo.t_rev03.c_blnthn
                  ORDER BY dbo.t_rev03.ti_kdkandatel,dbo.t_rev03.c_blnthn
```

	NAMA GROUP	KANDATEL	BULTAG	BUDGET	REAL
1	General Administrative	1	012003	8450.000	5150.000
2	Interkoneksi	1	012003	1700.000	1600.000
3	Marketing	1	012003	30156.880	905431.412
4	Operation Maintenance Service	1	012003	6420.000	9000.000
5	Pendapatan Abonemen	1	012003	1700.000	1600.000
6	Pendapatan Interkoneksi	1	012003	6420.000	9000.000
7	Pendapatan jastel lainnya	1	012003	30156.880	905431.412
8	Pendapatan Pulsa	1	012003	300.000	300.000
9	Pendapatan Wartel	1	012003	8450.000	5150.000
10	Perascosl	1	012003	300.000	300.000
11	General Administrative	1	022003	7630.000	5290.000

Tabel 3.17 Output script diatas

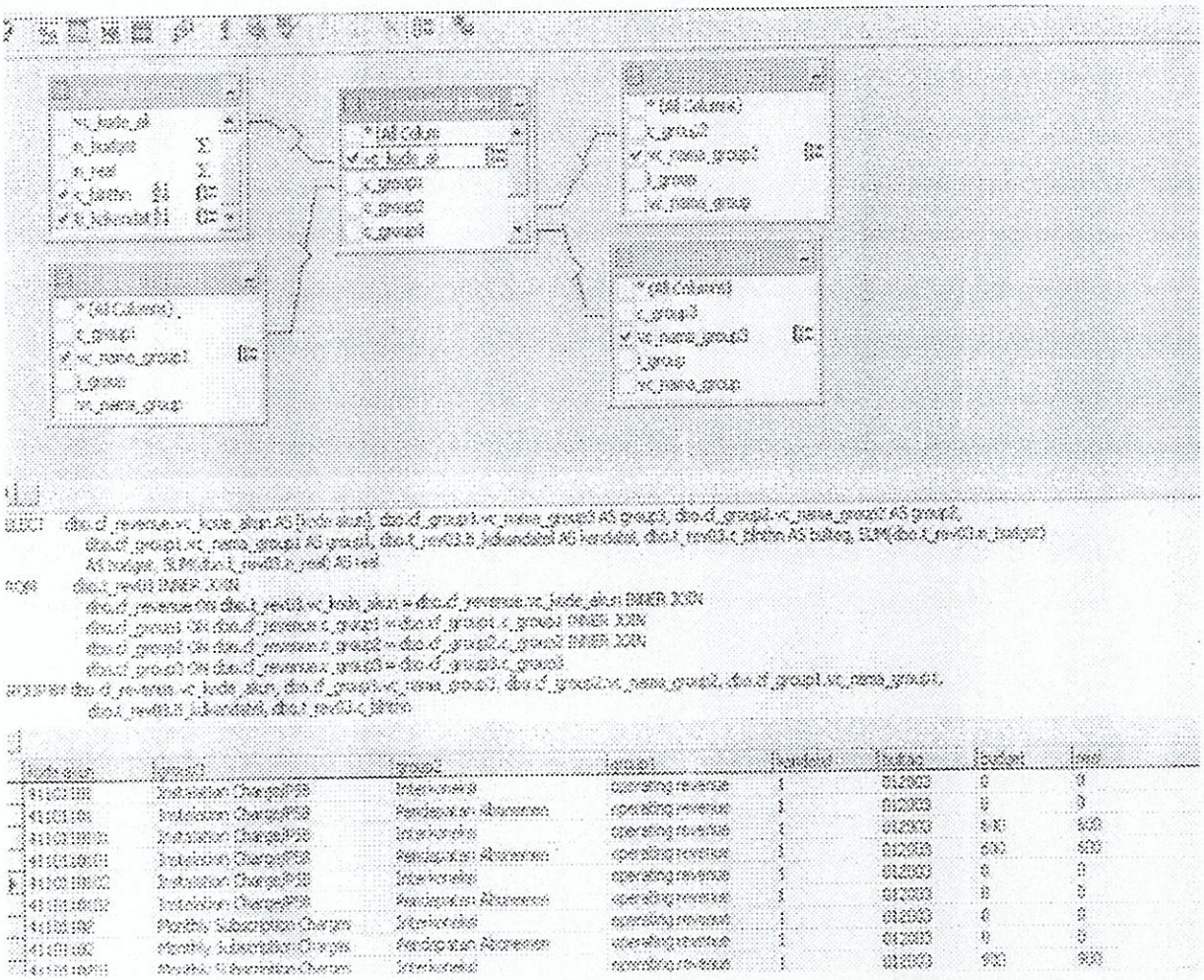


Gambar 3.3 Relasi tabel cf_group1, cf_group2, cf_revenue dan t__rev03 dengan script SQL dan output/hasil query

- Script SQL relasi tabel cf_group1, cf_group2, cf_revenue dan t_rev03 :

```
SELECT dbo.cf_group1.vc_nama_group2.vc_nama_group2,
dbo.cf_group3.vc_nama_group3,db0.cf_revenue.vc_kode_akun,
dbo.t_rev03.ti_kdkandatel,
   SUM(dbo.t_rev03.n_budget)      AS     Exprl,
   SUM(dbo.t_rev03.n_real) AS Expr2
   FROM        dbo.t_rev03   INNER JOIN
   dbo.cf_revenue      ON     dbo.t_rev03.vc_kode_akun      =
```

```
dbo.cf_revenue.vc_kode_akun INNER JOIN
dbo.cf_group2 ON dbo.cf_revenue.c_group2 =
    dbo.cf_group2.c_group2
INNER JOIN
dbo.cf_group1 ON dbo.cf_revenue.c_group1 =
    dbo.cf_group1.c_group1
INNER JOIN
dbo.cf_group3 ON dbo.cf_revenue.c_group3 = dbo.cf_group3.c_group3
GROUP BY dbo.t_rev03.ti_kdkandatel, dbo.t_rev03.c_blnthn,
dbo.cf_group1.vc_nama_group1, 2bo.cf_group2.vc_nama_group2,
dbo.cf_group3.vc_nama_group3,
dbo.cf_revenue.vc_kode_akun
ORDER BY dbo.t_rev.ti_kdkandatel,dbo.t_rev03.c_blnthn
```



Ganbar 3.4 Rewlasi tabel cf_group1, cf_group2, cf_group3, cf revenue dan t_rev03 dengan script SQL dan output/hasil query

- Script SQL relasi tabel cf_group1,cf_group2, cf_group3,cf_revenue dan t_rev03 :

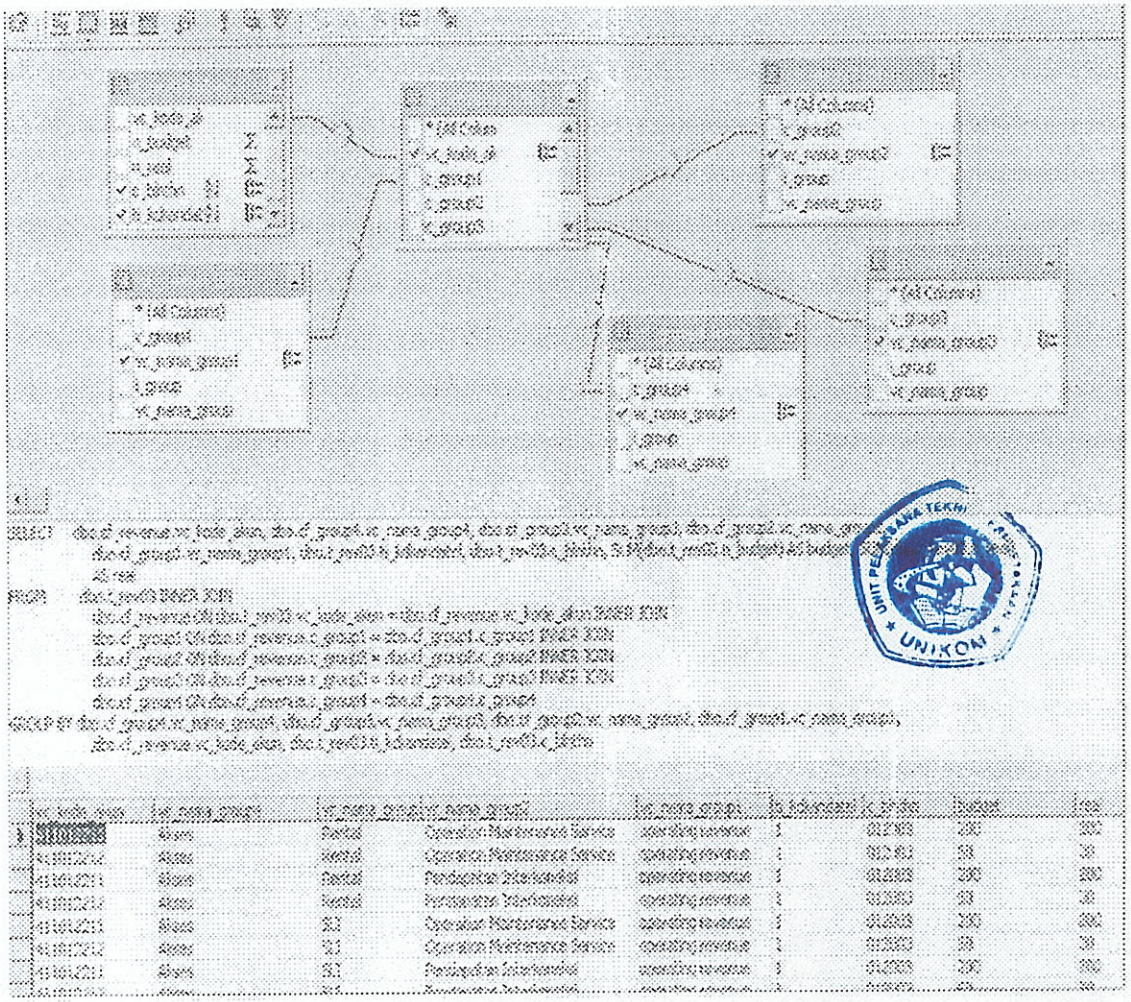
SELECT dbo.cf_revenue.vc_kode_akun AS [kode akun], dbo.cf_group3.vc_nama_group3 AS group3,dbo.cf_group2.vc_nama_group2 AS group2,

dbo.cf_group1.vc_nama_group1 AS group1, dbo.t_rev03.ti_kdkandatel AS kandatel, dbo.t_rev03.c_blnthn AS bultag,

SUM(dbo.t_rev03.n_budget) AS budget, SUM(dbo.t_rev03.n_real) AS real

FROM dbo.t_rev03 INNER JOIN

```
                dbo.cf_revenue      ON    dbo.t_rev03.vc_kode_akun =
dbo.cf_revenue.vc_kode_akun INNER JOIN
                dbo.cf_group1       ON    dbo.cf_revenue.c_group1   =
dbo.cf_group1.c_group1 INNER JOIN
                dbo.cf_group2       ON    dbo.cf_revenue.c_group2   =
dbo.cf_group2.c_group2 INNER JOIN
                dbo.cf_group3       ON    dbo.cf_revenue.c_group3   =
dbo.cf_group3.c_group3
GROUP   BY   dbo.cf_revenue.vc_kode_akun,dbo.cf_group3.vc_nama_group3,
dbo.cf_group2.vc_nama_group2, dbo.cf_group1.vc_nama_group1,
                dbo.t_rev03.ti_kdkandatel,dbo.t_rev03.c_blnthn
ORDER Bydbo.t_rev03.ti_kdkandatel,dbo.t_rev03.c_blnthn
```



Gambar 3.5 Relasi tabel cf_group1, cf_group2, cf_group3, cf_group4, cf_revenue dan t_rev03 dengan script SQL dan output/hasil query

- Script SQL relasi tabel cf_group1, cf_group2, cf_group3, cf_group4,cf_revenue dan t_rev03:

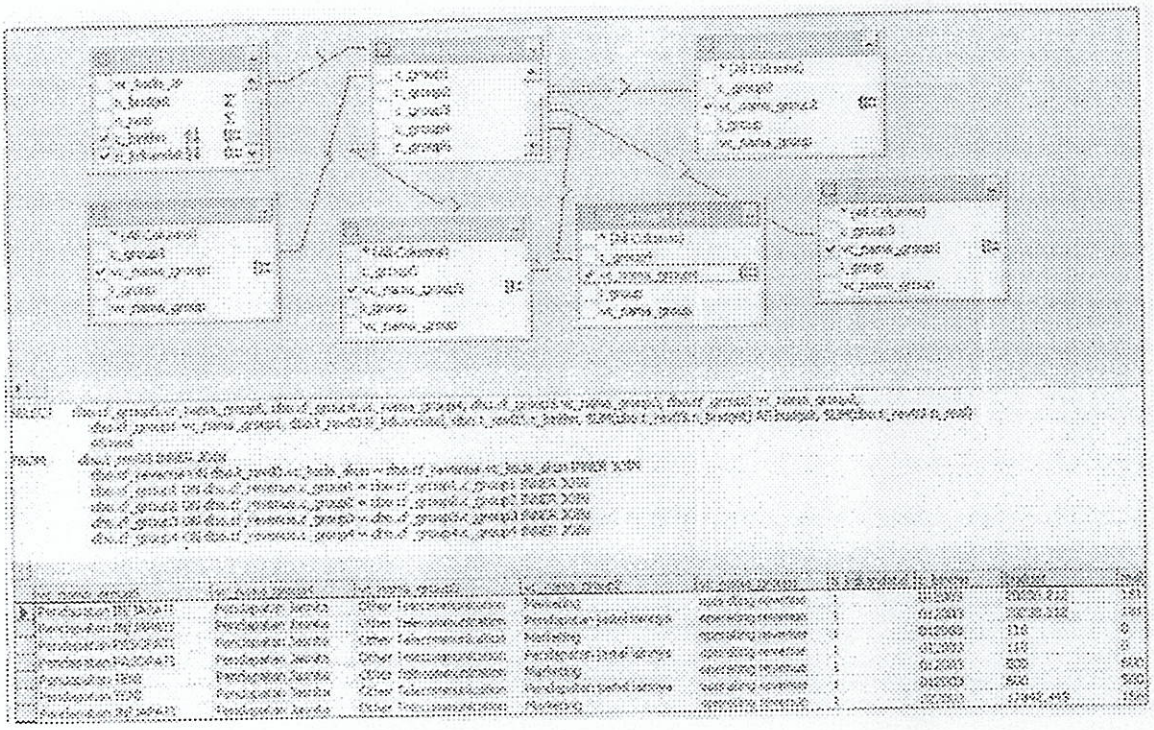
SELECT dbo.cf_revenue.vc_kode_akun, dbo.cf_group4.vc_nama_group4, dbo.cf_group3.vc_nama_group3, dbo.cf_group2.vc_nama_group2, dbo.cf_group1.vc_nama_group1,

dbo.t_rev03.ti_kdkandatel,dbo.t_rev03.c_blnthn,

SUM(dbo.t_rev03.n_budget) AS budget,

SUM(dbo.t_rev03.n_real)

```
                AS real
FROM            dbo.t_rev03 INNER JOIN
        dbo.cf_revenue      ON      dbo.t_rev03.vc_kode_akun        =
dbo.cf_revenue.vc_kode_akun INNER JOIN
        dbo.cf_group1               ON          dbo.cf_revenue.c_group1   =
dbo.cf_group1.c_group1 INNER JOIN
        dbo.cf_group2               ON          dbo.cf_revenue.c_group2   =
dbo.cf_group2.c_group2 INNER JOIN
        dbo.cf_group3               ON          dbo.cf_revenue.c_group3   =
dbo.cf_group3.c_group3 INNER JOIN
        dbo.cf_group4       ON          dbo.cf_revenue.c_group4   =
dbo.cf_group4.c_group4 INNER JOIN
GROUP BY  dbo.cf_group4.vc_nama_group4, dbo.cf_group3.vc_nama_group3,
dbo.cf_group2.vc_nama_group2, dbo.cf_group1.vc_nama_group1,
        Dbo.cf_revenue.vc_kode_akun,        dbo.t_rev03.ti_kdkandatel,
dbo.t_rev03.c_blnthn
ORDER BY dbo.t_rev03.ti_kdkandatel, dbo.t_rev03.c_blnthn
```



Gambar 3.6 Relasi tabel cf_group1, cf_group3, cf_group3, cf_group4, cf_group5,cf_revenue dan t_rev03 dengan script SQL dan output/hasil query

- Script SQL relasi tabel cf_group1, cf_group3, cf_group3, cf_group4, cf_group5,cf_revenue dan t_rev03 :

```
SELECT                  dbo.cf_group5.vc_nama_group5,
dbo.cf_group4.vc_nama_group4, dbo.cf_group3.vc_nama_group3,
 dbo.cf_group2.vc_nama_group2,dbo.cf_group1.vc_nama_group1,
dbo.t_rev03.ti_kdkandatel, dbo.t_rev03.c_blnthn, SUM(dbo.t_rev03.n_budget)
      AS    budget,
SUM(dbo.t_rev03.n_real)
      AS real
FROM      dbo.t_rev03 INNER JOIN
          dbo.cf_revenue    ON    dbo.t_rev03.vc_kode_akun =
dbo.cf_revenue.vc_kode_akun  INNER JOIN
          dbo.cf_group1     ON    dbo.cf_revenue.c_group1   =
dbo.cf_group1.c_group1  INNER JOIN
          dbo.cf_group2     ON    dbo.cf_revenue.c_group2   =
```

```
        dbo.cf_group2.c_group2  INNER JOIN
                        dbo.cf_group3        ON     dbo.cf_revenue.c_group3   =
        dbo.cf_group3.c_group3  INNER JOIN
                        dbo.cf_group4        ON     dbo.cf_revenue.c_group4   =
        dbo.cf_group4.c_group4 INNER JOIN
                        dbo.cf_group5        ON     dbo.cf_revenue.c_group5   =
        dbo.cf_group5.c_group5  INNER JOIN
        GROUP BY                    dbo.cf_group5.vc_nama_group5,
dbo.cf_group4.vc_nama_group4,  dbo.cf_group3.vc_nama_group3,
dbo.cf_group2.vc_nama_group2,
        dbo.cf_group1.vc_nama_group1,dbo.t_rev03.ti_kdkandatel,
dbo.t_rev03.c_blnthn
ORDER BY dbo.t_rev03.ti_kdkandatel, dbo.t_rev03.c_blnthn
```


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