Rakamin Academy X id/x partners

<Designing a Datawarehouse>

ID/X Partners - Data Engineer

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*notes: just a sample page

About Company

id/x partners was established in 2002 by ex-bankers and management consultants who have vast experiences in credit cycle and process management, scoring development, and performance management. Our combined experience has served corporations across Asia and Australia regions and in multiple industries, specifically financial services, telecommunications, manufacturing and retail.

id/x partners provides consulting services that specializes in utilizing data analytic and decisioning (DAD) solutions combined with an integrated risk management and marketing discipline to help clients optimize the portfolio profitability and business process.

Project Portfolio

Salah satu client dari perusahaan ID/X Partners yang bergerak di industri perbankan, memiliki kebutuhan untuk membuat sebuah Data Warehouse dari beberapa sumber data yang berbeda yang tersimpan di dalam sistem mereka. Beberapa sumber data tersebut antara lain :

1. transaction_excel (file excel)
2. transaction_csv (file csv)
3. transaction_db (Database SQL Server)
4. account (Database SQL Server)
5. customer (Database SQL Server) 6. branch (Database SQL Server)
7. city (Database SQL Server)
8. state (Database SQL Server)

Permasalahan yang mereka hadapi saat ini adalah mereka kesulitan untuk mengekstrak data dari berbagai sumber (excel, csv, database) secara bersamaan sehingga pelaporan dan analisis data mereka selalu mengalami keterlambatan. S

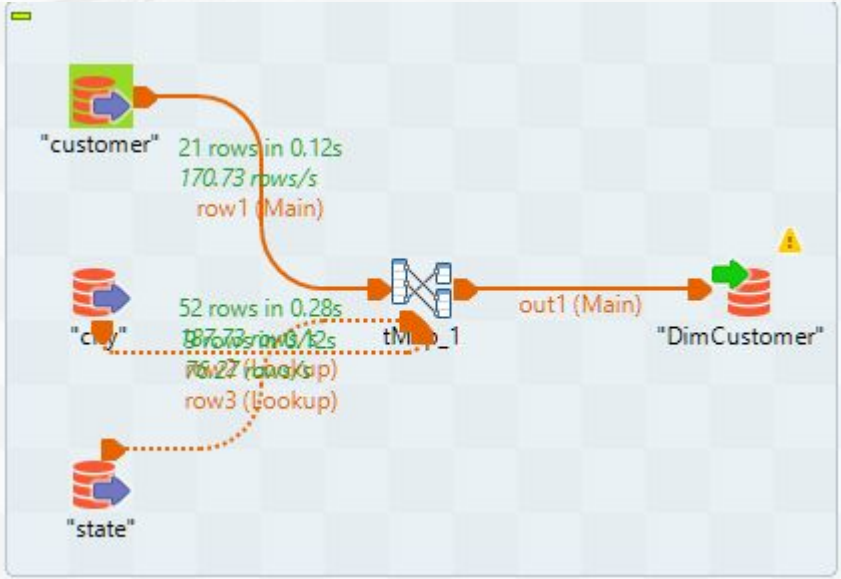
1. Data Warehouse Creation

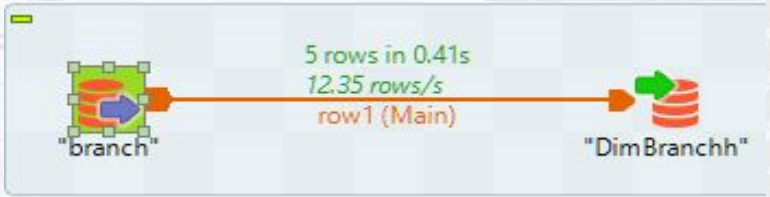
Step by step:

1. Create database dengan nama “DWH” terlebih dahulu yang berisikan DimAccount, DimCustomer, DimBranch, FactTable sebagai bagian dari “load” pada proses ETL
2. Me-restore sample.bak pada SSMS dan mendownload file .csv dan .xlsx kemudian mengimportnya ke Talend
3. Menyambungkan SSMS dengan Talend agar terkoneksi dan database bisa di akses
4. Melakukan proses ETL

2. Create ETL Job for Dimension Table

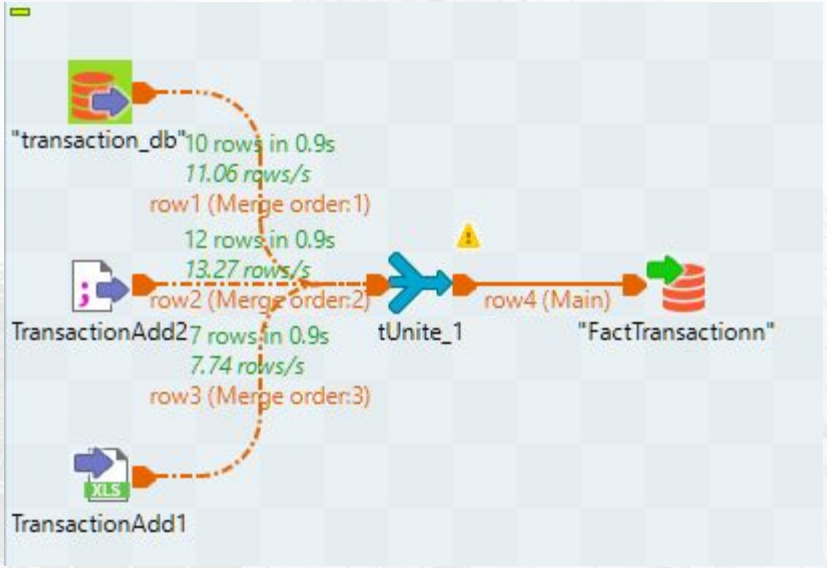
Tiap Dimension dengan bantuan T.map seperti berikut





3. Create ETL Job for Fact Table

Extract - Transformation - hingga Load pada tabel fakta menggunakan bantuan tUnite



4. Create Stored Procedure

Stored Procedure untuk DailyTransaction

```
CREATE PROCEDURE DailyTransaction
    @start_date DATE,
    @end_date DATE
AS
BEGIN
    SELECT
        Date,
        COUNT(*) AS TotalTransactions,
        SUM(Amount) AS TotalAmount
    FROM
        YourTableName
    WHERE
        Date BETWEEN @start_date AND @end_date
    GROUP BY
        Date
    ORDER BY
        Date;
END;
```

Link Terkait

Github

Drive

Thank You