MINI PROJECT DATA ENGINEERING DSLS 2023

Name:

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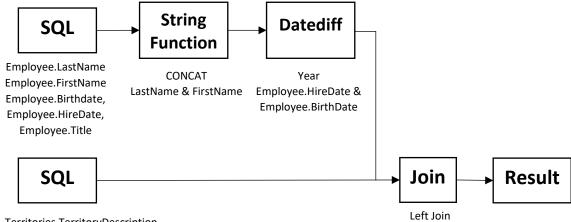
Date:

January, 2023

Bagian 2a Transform: Case Study

1. Territory Analysis

Data / Tabel : Tabel EmployeeTerritories, Tabel Employees, dan Tabel Territories Flowchart :



Territories.TerritoryDescription

Query:

```
SELECT
    CONCAT(Employees.FirstName, ' ', Employees.LastName) AS Employee_FullName,
    DATEDIFF(YEAR,Employees.BirthDate, Employees.HireDate) AS Employee_Age,
    Employees.Title,
    Territories.TerritoryDescription
FROM
    EmployeeTerritories
    LEFT JOIN Employees ON EmployeeTerritories.EmployeeID =
        Employees.EmployeeID
    LEFT JOIN Territories ON EmployeeTerritories.TerritoryID =
        Territories.TerritoryID
ORDER BY
Employee_FullName, TerritoryDescription
```

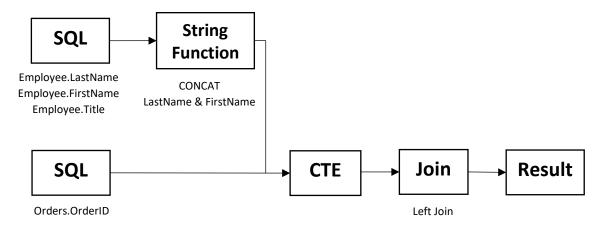
Hasil:

	Employee FullName	Employee Age	Title	TerritoryDescription	
1	Andrew Fuller	40	Vice President, Sales	Bedford	
2	Andrew Fuller	40 Vice President, Sales		Boston	
3	Andrew Fuller	40	Vice President, Sales	Braintree	
4	Andrew Fuller	40	Vice President, Sales	Cambridge	
5	Andrew Fuller	40	Vice President, Sales	Georgetow	
6	Andrew Fuller	40	Vice President, Sales	Louisville	
7	Andrew Fuller	40	Vice President, Sales	Westboro	
8	Anne Dodsworth	28	Sales Representative	Bloomfield Hills	
9	Anne Dodsworth	28	Sales Representative	Hollis	
10	Anne Dodsworth	28	Sales Representative	Minneapolis	

2. Employee Analysis

Data / Tabel : Tabel Employees dan Tabel Orders

Flowchart:



Query:

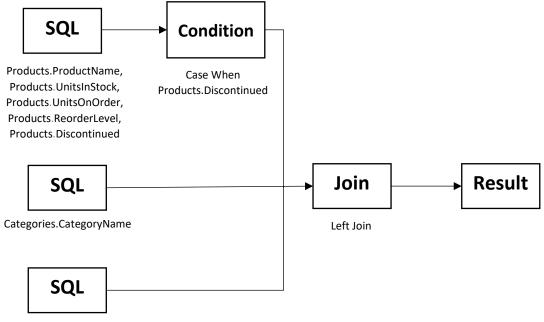
Hasil:

	Employee_FullName	Title	Jumlah_OrderID
1	Steven Buchanan	Sales Manager	42
2	Anne Dodsworth	Sales Representative	43
3	Michael Suyama	Sales Representative	67
4	Robert King	Sales Representative	72
5	Andrew Fuller	Vice President, Sales	96
6	Laura Callahan	Inside Sales Coordinator	104
7	Nancy Davolio	Sales Representative	123
8	Janet Leverling	Sales Representative	127
9	Margaret Peacock	Sales Representative	156

3. Supplier Analysis

Data / Tabel : Tabel Products, Tabel Categories, dan Tabel Suppliers

Flowchart:



Suppliers.CompanyName

Query:

```
SELECT
    Products.ProductName,
   Categories.CategoryName,
    Suppliers.CompanyName AS SupplierName,
    Products.UnitsInStock,
   Products.UnitsOnOrder,
   Products.ReorderLevel,
    CASE
       WHEN Products.Discontinued = '1' THEN 'Discontinued'
       WHEN Products.Discontinued = '0' THEN 'Continued'
    END AS Product_Status
FROM
   Products
    LEFT JOIN Categories ON Products.CategoryID = Categories.CategoryID
   LEFT JOIN Suppliers ON Products.SupplierID = Suppliers.SupplierID
ORDER BY
    Product_Status,
   Products.ReorderLevel DESC
```

Hasil:

	ProductName	CategoryName	SupplierName	UnitsInStock	UnitsOnOrder	ReorderLevel	Product_Status
1	Queso Cabrales	Dairy Products	Cooperativa de Quesos 'Las Cabras'	22	30	30	Continued
2	NuNuCa Nuß-Nougat-Creme	Confections	Heli Süßwaren GmbH & Co. KG	76	0	30	Continued
3	Schoggi Schokolade	Confections	Heli Süßwaren GmbH & Co. KG	49	0	30	Continued
4	Boston Crab Meat	Seafood	New England Seafood Cannery	123	0	30	Continued
5	Valkoinen suklaa	Confections	Karkki Oy	65	0	30	Continued
6	Gnocchi di nonna Alice	Grains/Cereals	Pasta Buttini s.r.l.	21	10	30	Continued
7	Wimmers gute Semmelknödel	Grains/Cereals	Plutzer Lebensmittelgroßmärkte AG	22	80	30	Continued
8	Outback Lager	Beverages	Pavlova, Ltd.	15	10	30	Continued
9	Sirop d'érable	Condiments	Forêts d'érables	113	0	25	Continued
10	Filo Mix	Grains/Cereals	G'day, Mate	38	0	25	Continued