BASIS DATA LANJUT JOBSHEET-8

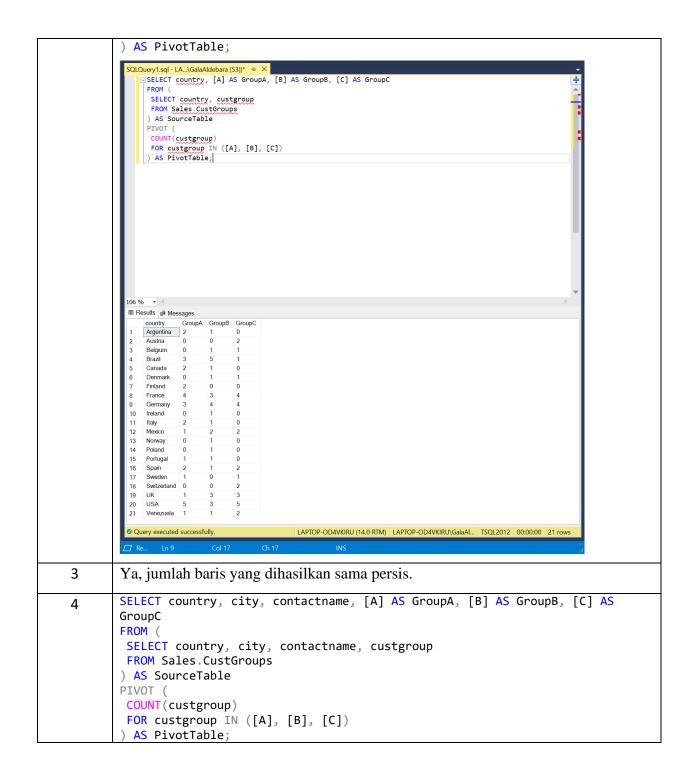


MUHAMMAD IQBAL MAKMUR AL-MUNIRI 2241720099 TEKNIK INFORMATIKA TEKNOLOGI INFORMASI

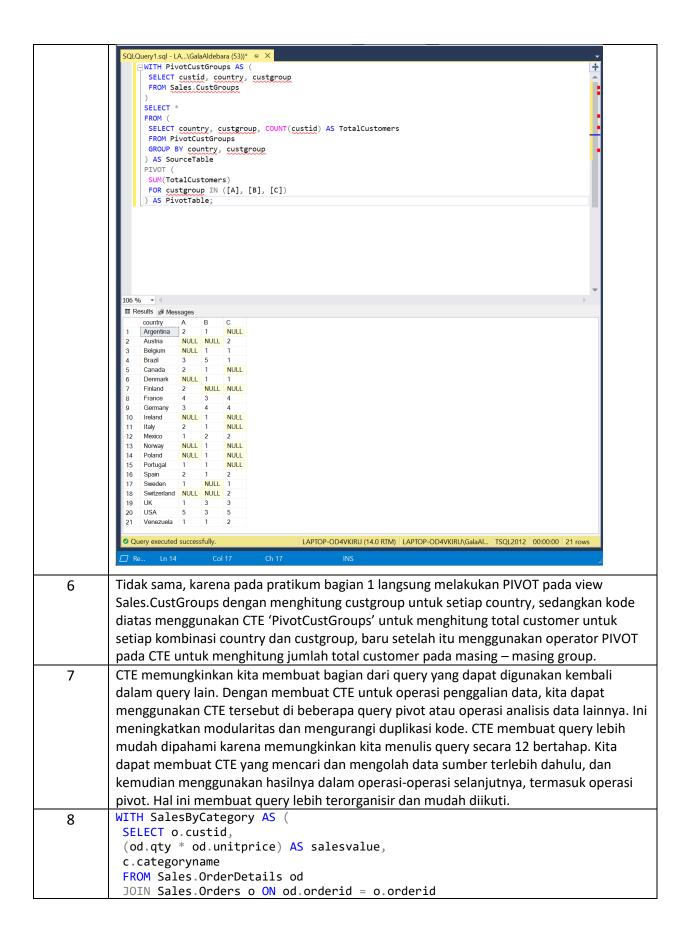
Nama	:	Muhammad Iqbal Makmur Al-Muniri
Nim	:	2241720099
Kelas	:	TI – 2C

LEMBAR JAWABAN JOBSHEET-8

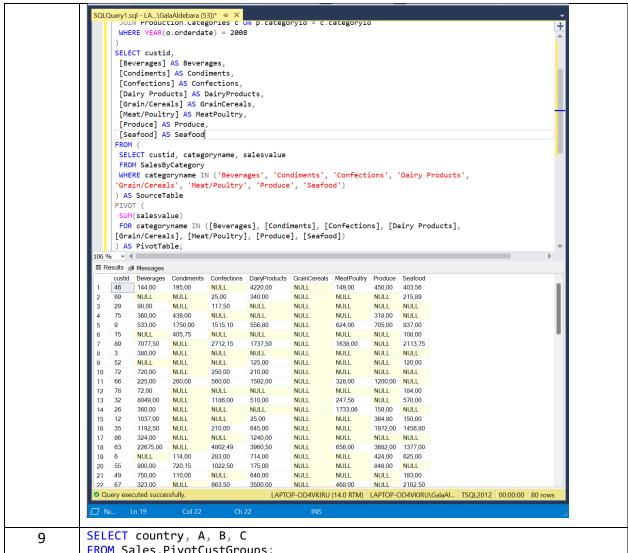




```
QLQuery1.sql - LA...\GalaAldebara (53))*   ⇒   ×
                  SELECT country, city, contactname, [A] AS GroupA, [B] AS GroupB, [C] AS GroupC
                   SELECT country, city, contactname, custgroup
                   FROM Sales.CustGroups
                  ) AS SourceTable
                  PIVOT (
                   COUNT(custgroup)
                   FOR custgroup IN ([A], [B], [C])
                   ) AS PivotTable;
             106 % - 4
             country city
Argentina Buenos Aires
                                     contactname
                                                    GroupA GroupB GroupC
                                    Gaffney, Lawrie
                  Argentina Buenos Aires
                  Argentina Buenos Aires
                                    Tiano, Mike
                                                          0
                                     Kane, John
                  Austria
                          Graz
                          Salzburg
                  Austria
                                     Meston, Tosh
                  Belgium
                          Bruxelles
                                     Mace, Donald
                                                   0
                                                          0
                  Belgium
                          Charleroi
                                     Gulbis, Katrin
                  Brazil
                          Campinas
                                     Cheng, Yao-Qiang 0
                  Brazil
                          Resende
                                    Li. Yan
                          Rio de Janeiro Cohen, Shy
                  Brazil
                          Rio de Janeiro Florczyk, Krzysztof 0
              12
                          Rio de Janeiro Garden, Euan
                  Brazil
                          Sao Paulo
                                    Nagel, Jean-Philippe 1
Richardson, Shawn 1
              14
                  Brazil
                          Sao Paulo
              15
                  Brazil
                          Sao Paulo
                  Brazil
                          Sao Paulo
                                     Russo, Giuseppe
              17
                  Canada
                          Montr∳al
                                     Taylor, Maurice
                                                          0
                                     Bassols, Pilar Colome 0
                  Canada
                          Tsawassen
                  Canada
                          Vancouver
                                     Steiner, Dominik
              20
                  Denmark Kobenhavn
                                     Gonzalez, Nuria
                  Finland
                         Helsinki
                                     Larsson, Katarina
             Query executed successfully.
                                                       LAPTOP-OD4VKIRU (14.0 RTM) | LAPTOP-OD4VKIRU\GalaAl... | TSQL2012 | 00:00:00 | 91 rows
           WITH PivotCustGroups AS (
5
             SELECT custid, country, custgroup
             FROM Sales.CustGroups
           SELECT *
           FROM (
             SELECT country, custgroup, COUNT(custid) AS TotalCustomers
            FROM PivotCustGroups
            GROUP BY country, custgroup
            ) AS SourceTable
           PIVOT (
            SUM(TotalCustomers)
            FOR custgroup IN ([A], [B], [C])
            ) AS PivotTable;
```



```
JOIN Production.Products p ON od.productid = p.productid
 JOIN Production.Categories c ON p.categoryid = c.categoryid
WHERE YEAR(o.orderdate) = 2008
SELECT custid,
[Beverages] AS Beverages,
 [Condiments] AS Condiments,
 [Confections] AS Confections,
 [Dairy Products] AS DairyProducts,
 [Grain/Cereals] AS GrainCereals,
 [Meat/Poultry] AS MeatPoultry,
 [Produce] AS Produce,
 [Seafood] AS Seafood
FROM (
SELECT custid, categoryname, salesvalue
FROM SalesByCategory
WHERE categoryname IN ('Beverages', 'Condiments', 'Confections', 'Dairy
Products',
'Grain/Cereals', 'Meat/Poultry', 'Produce', 'Seafood')
) AS SourceTable
PIVOT (
SUM(salesvalue)
FOR categoryname IN ([Beverages], [Condiments], [Confections], [Dairy
Products],
[Grain/Cereals], [Meat/Poultry], [Produce], [Seafood])
) AS PivotTable;
```

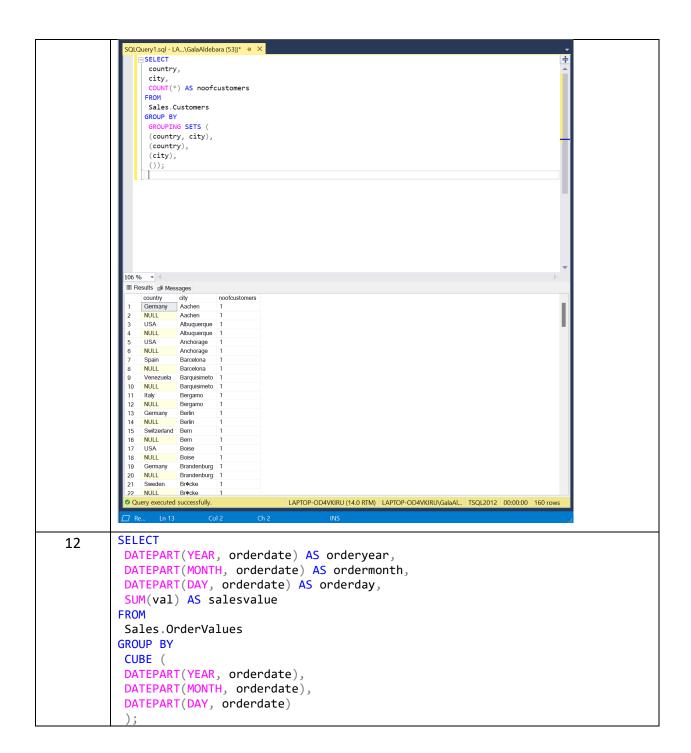


FROM Sales.PivotCustGroups;

```
SQLQuery1.sql - LA...\GalaAldebara (53))* → ×
□ SELECT country, A, B, C
                  FROM Sales.PivotCustGroups;
             ■ Results ■ Messages

country A B C
1 Argentina 2 1 0
2 Austria 0 0 2
                  Belgium
                  Brazil
                  Canada
                  Denmark
                  Finland
                  France
                  Germany
                  Ireland
                  Italy
Mexico
                  Norway
                  Poland
                  Portugal
                  Spain
Sweden
              18
19
20
                                                      LAPTOP-OD4VKIRU (14.0 RTM) | LAPTOP-OD4VKIRU\GalaAl... | TSQL2012 | 00:00:00 | 21 rows
            SELECT custgroup, country, numberofcustomers
10
            FROM (
             FROM Sales.PivotCustGroups
            ) AS SourceTable
            UNPIVOT (
            numberofcustomers FOR custgroup IN (A, B, C)
            ) AS UnpivotedData;
```

```
QLQuery1.sql - LA...\GalaAldebara (53))* 🗢 🗶
                    SELECT custgroup, country, numberofcustomers
                     SELECT country, A, B, C
                     FROM Sales.PivotCustGroups
                    ) AS SourceTable
                    UNPIVOT (
                    numberofcustomers FOR custgroup IN (A, B, C)
) AS UnpivotedData;
               106 % -
               custgroup country nu
A Argentina 2
                                     numberofcustomers
                             Argentina
                             Argentina 0
Austria 0
                             Austria
                             Austria
                             Belgium
                             Belgium
                9
10
                             Belgium
Brazil
                12
13
                             Brazil
                             Canada
                14
15
16
17
                             Canada
                             Denmark 0
                             Denmark
                18
19
20
                             Denmark
                             Finland
Finland
                             Finland
                   A France 4 uery executed successfully.
                                                            LAPTOP-OD4VKIRU (14.0 RTM) | LAPTOP-OD4VKIRU\GalaAl... | TSQL2012 | 00:00:00 | 63 rows
             SELECT
11
               country,
               city,
               COUNT(*) AS noofcustomers
             FROM
               Sales.Customers
             GROUP BY
              GROUPING SETS (
               (country, city),
               (country),
               (city),
```



```
GQLQuery1.sql - LA...\GalaAldebara (53))* → ×
                     DATEPART(YEAR, orderdate) AS orderyear,
DATEPART(MONTH, orderdate) AS ordermonth,
DATEPART(DAY, orderdate) AS orderday,
                     SUM(val) AS salesvalue
                    FROM
                     Sales.OrderValues
                    GROUP BY
                     DATEPART(YEAR, orderdate),
DATEPART(MONTH, orderdate),
DATEPART(DAY, orderdate)
               orderyear ordermonth
                                            salesvalue
6931.60
                                            1738 00
                                            8669.60
                   NULL 1
                   2007
2008
                                            851.20
                                            11549.89
                    NULL
                                            12401.09
                    2007
                                            5636.96
                    2008
                                            5448.57
                    NULL
                                            11085.53
                   NULL 7
                                            142.50
                                            1424.00
                13
14
15
16
17
18
19
20
                   2007
                                            2697.50
                   2007
                                            716.64
                   2006
                                            240 40
                    2007
                   NULL 10
                                            3873 50
                   2006
                                            2296.00
                   NULL 11
                21
22
                                            2296.00
                                            2917.00
                   2007
                                                        LAPTOP-OD4VKIRU (14.0 RTM) LAPTOP-OD4VKIRU\GalaAl... TSQL2012 00:00:00 948 rows
                   ery executed successfully.
             SELECT
13
               DATEPART(YEAR, orderdate) AS orderyear,
               DATEPART(MONTH, orderdate) AS ordermonth,
               DATEPART(DAY, orderdate) AS orderday,
              SUM(val) AS salesvalue
             FROM
              Sales.OrderValues
             GROUP BY
              ROLLUP (
              DATEPART(YEAR, orderdate),
              DATEPART(MONTH, orderdate),
               DATEPART(DAY, orderdate)
               );
```

