

Nama : Erlangga Rizal Mahendra
NIM : 2440101704

Mo_6

1. Display TreatmentTypeName, TreatmentName, and Price for every treatment which name contains 'hair' or start with 'nail' word and has price below 100000.
(join, like)

USE OOVEO_Salon

SELECT

MsTreatmentType.TreatmentTypeName,
MsTreatment.TreatmentName,
MsTreatment.Price

FROM

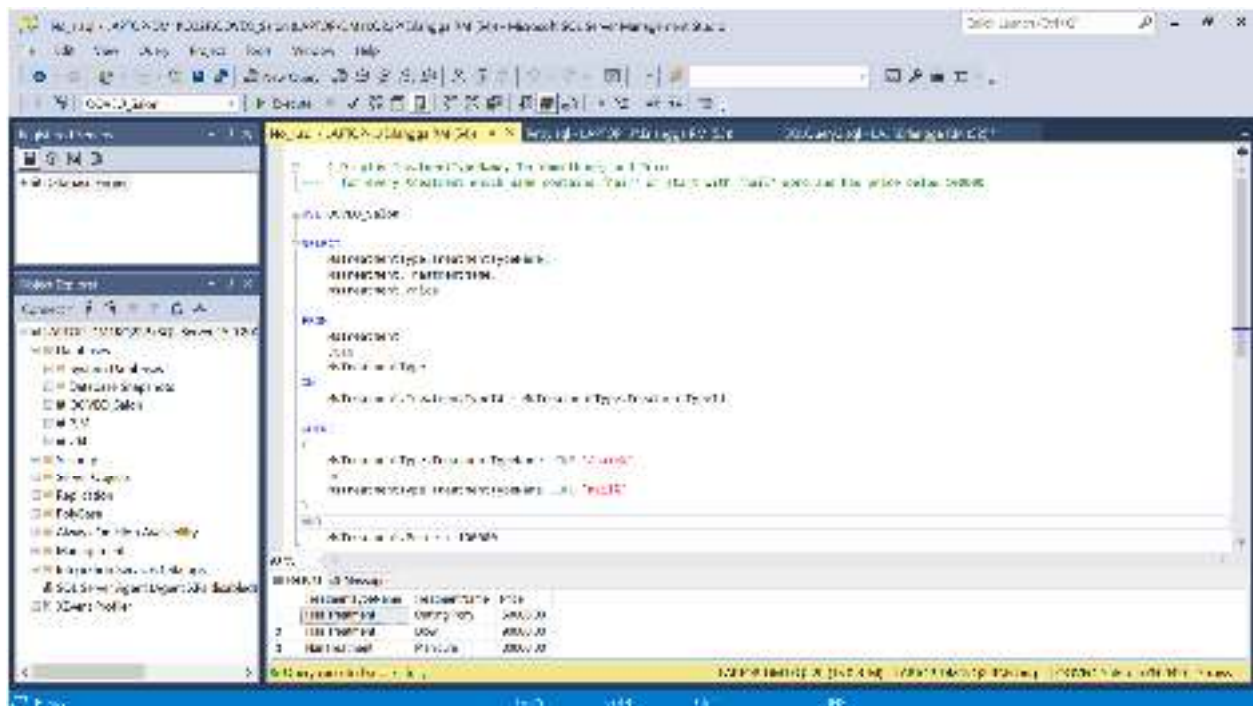
MsTreatment
JOIN
MsTreatmentType

ON

MsTreatment.TreatmentTypeId = MsTreatmentType.TreatmentTypeId

WHERE

(
 MsTreatmentType.TreatmentTypeName LIKE '%hair%'
 or
 MsTreatmentType.TreatmentTypeName LIKE 'nail%'
)
AND
 MsTreatment.Price < 100000



2. Display StaffName and StaffEmail (obtained from the first character of staff's name in lowercase format and followed with last word of staff's name and '@oosalon.com' word) for every staff who handle transaction on Thursday. The duplicated data must be displayed only once.
(distinct, lower, left, reverse, left, charindex, join, datename, weekday, like)

```
USE OOVEO_Salon
```

```
SELECT
```

```
    DISTINCT
```

```
    MsStaff.StaffName, --- Data yang sama tidak akan ditampilkan
    LOWER(LEFT(MsStaff.StaffName,1)) +
    LOWER(RIGHT(MsStaff.StaffName,CHARINDEX(' ',REVERSE(MsStaff.StaffName)) -
1)) +
    '@oosalon.com' AS 'staff email'
```

```
FROM
```

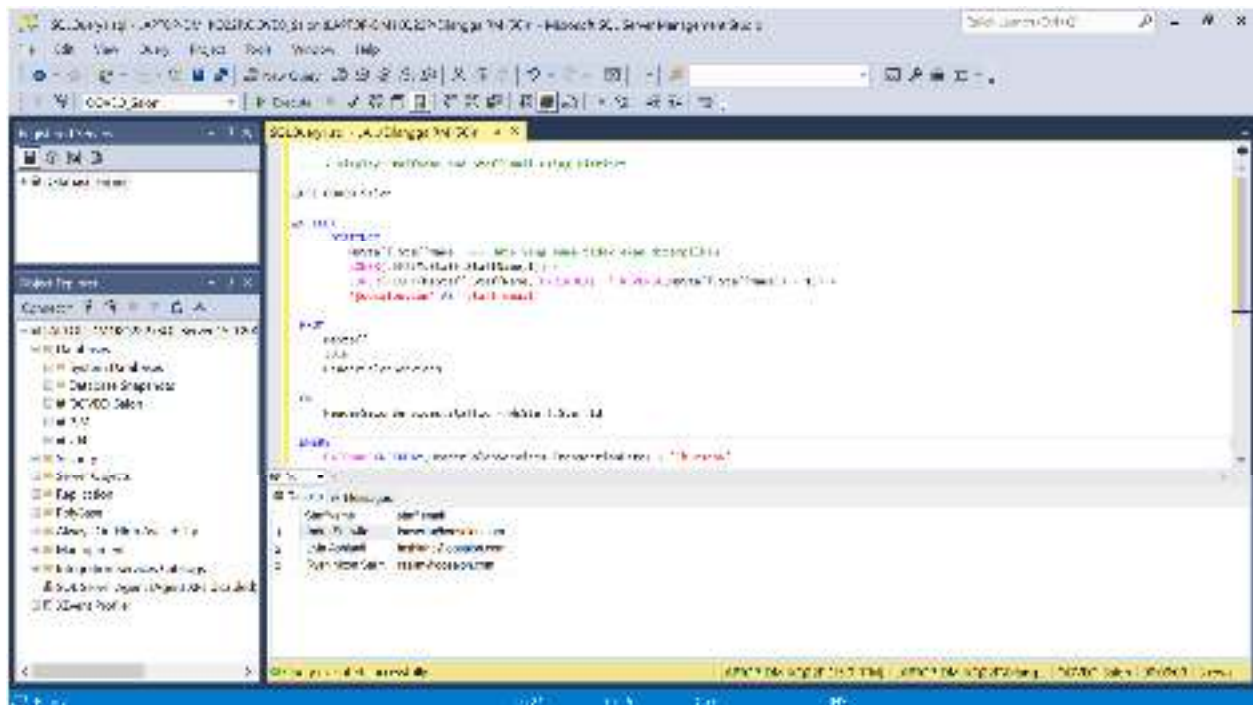
```
    MsStaff
  JOIN
  HeaderSalonServices
```

```
ON
```

```
    HeaderSalonServices.StaffId = MsStaff.StaffId
```

```
WHERE
```

```
    DATENAME(WEEKDAY,HeaderSalonServices.TransactionDate) = 'Thursday'
```



3. Display New Transaction ID (obtained by replacing 'TR' in TransactionID with 'Trans'), Old Transaction ID (obtained from TransactionId), TransactionDate, StaffName, and CustomerName for every transaction which happened 2 days before 24th December 2012.
(replace, join, datediff, day)

```
USE OOVEO_Salon
```

```
SELECT
```

```
    REPLACE(HeaderSalonServices.TransactionId,'TR','Trans') AS 'New Transaction ID',  
    HeaderSalonServices.TransactionId AS 'Old Transaction ID',  
    HeaderSalonServices.TransactionDate,  
    MsStaff.StaffName,  
    MsCustomer.CustomerName
```

```
FROM
```

```
    HeaderSalonServices  
    JOIN  
    MsStaff
```

```
ON
```

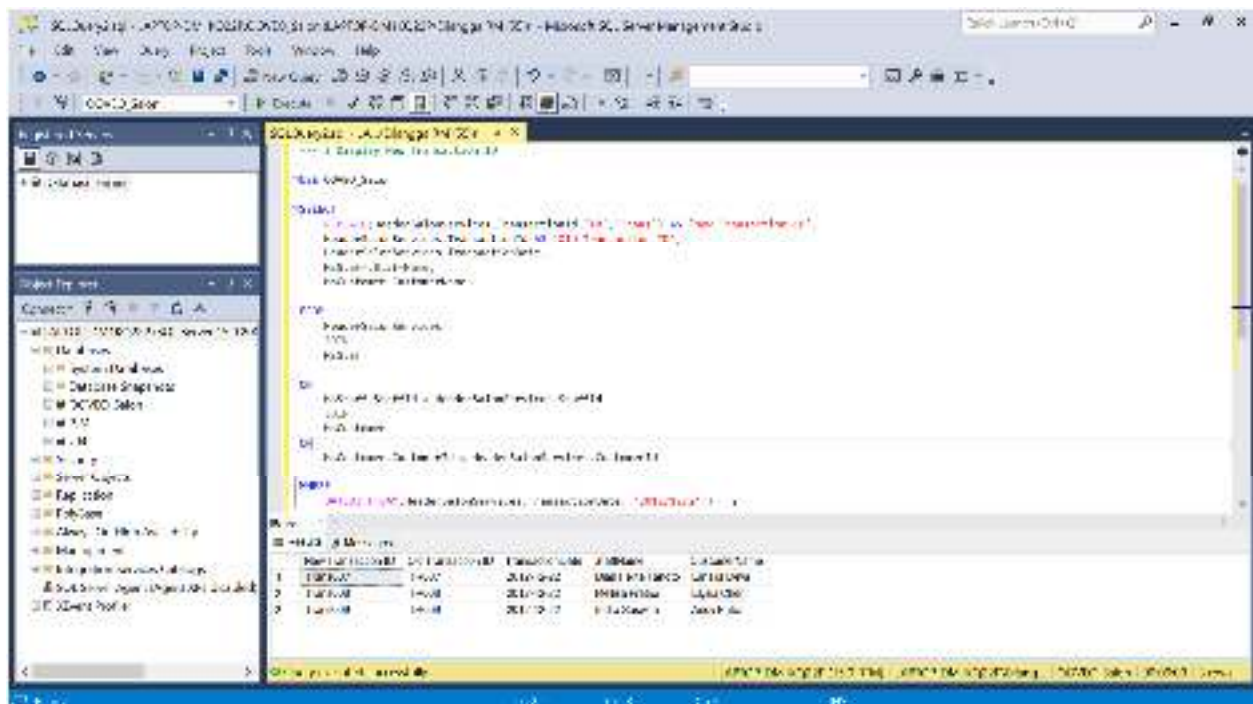
```
    MsStaff.StaffId = HeaderSalonServices.StaffId  
    JOIN  
    MsCustomer
```

```
ON
```

```
    MsCustomer.CustomerId = HeaderSalonServices.CustomerId
```

```
WHERE
```

```
DATEDIFF(DAY,HeaderSalonServices.TransactionDate, '2012/12/24') = 2
```



4. Display New Transaction Date (obtained by adding 5 days to TransactionDate), Old Transaction Date (obtained from TransactionDate), and CustomerName for every transaction which didn't happen on day 20th.

(dateadd, day, join, datepart)

USE OOVEO_Salon

SELECT

DATEADD(DAY,5,HeaderSalonServices.TransactionDate) AS 'New Transaction ID',
HeaderSalonServices.TransactionDate AS 'Old Transaction ID',
MsCustomer.CustomerName

FROM

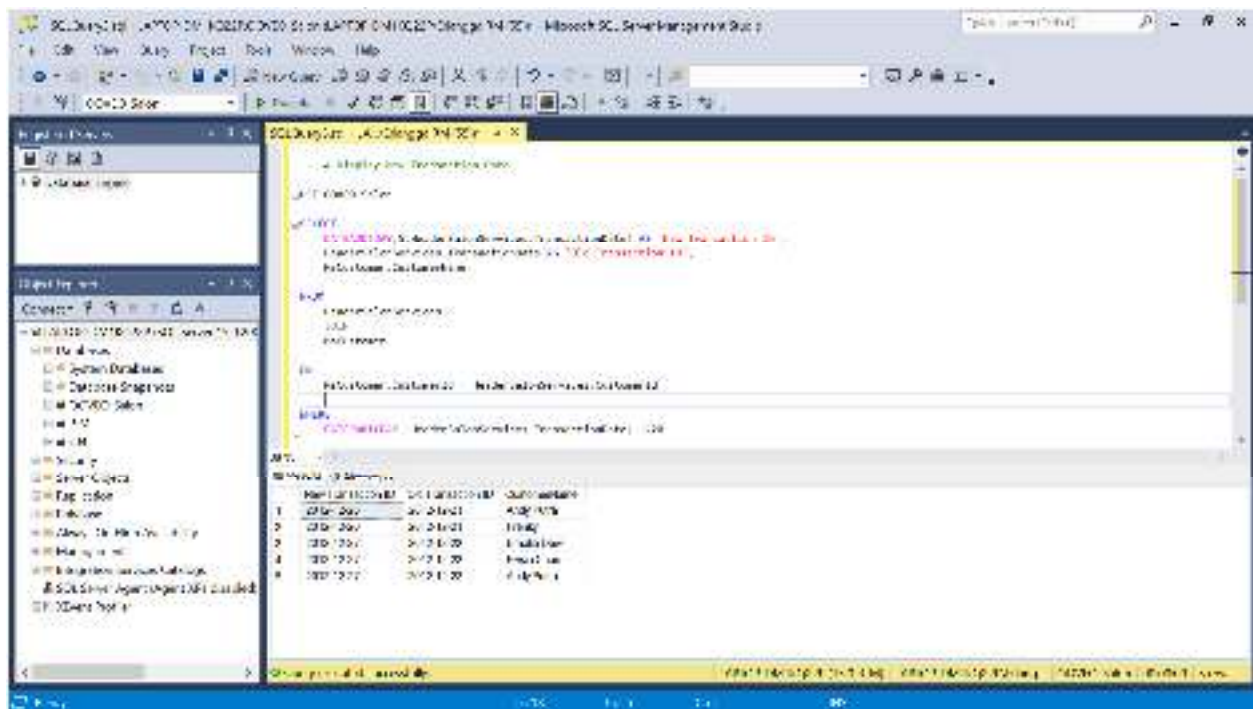
HeaderSalonServices
JOIN
MsCustomer

ON

MsCustomer.CustomerId = HeaderSalonServices.CustomerId

WHERE

DATEPART(DAY, HeaderSalonServices.TransactionDate) !=20



5. Display Day (obtained from the day transaction happened), CustomerName, and TreatmentName for every Customer who was handled by female staff that has position name begin with 'TOP' word. Then order the data based on CustomerName in ascending format.
(datetime, weekday, join, in, like, order by)

USE OOVEO_Salon

SELECT

DATENAME(WEEKDAY, HeaderSalonServices.TransactionDate) AS 'Day',
MsCustomer.CustomerName,
MsTreatment.TreatmentName

FROM

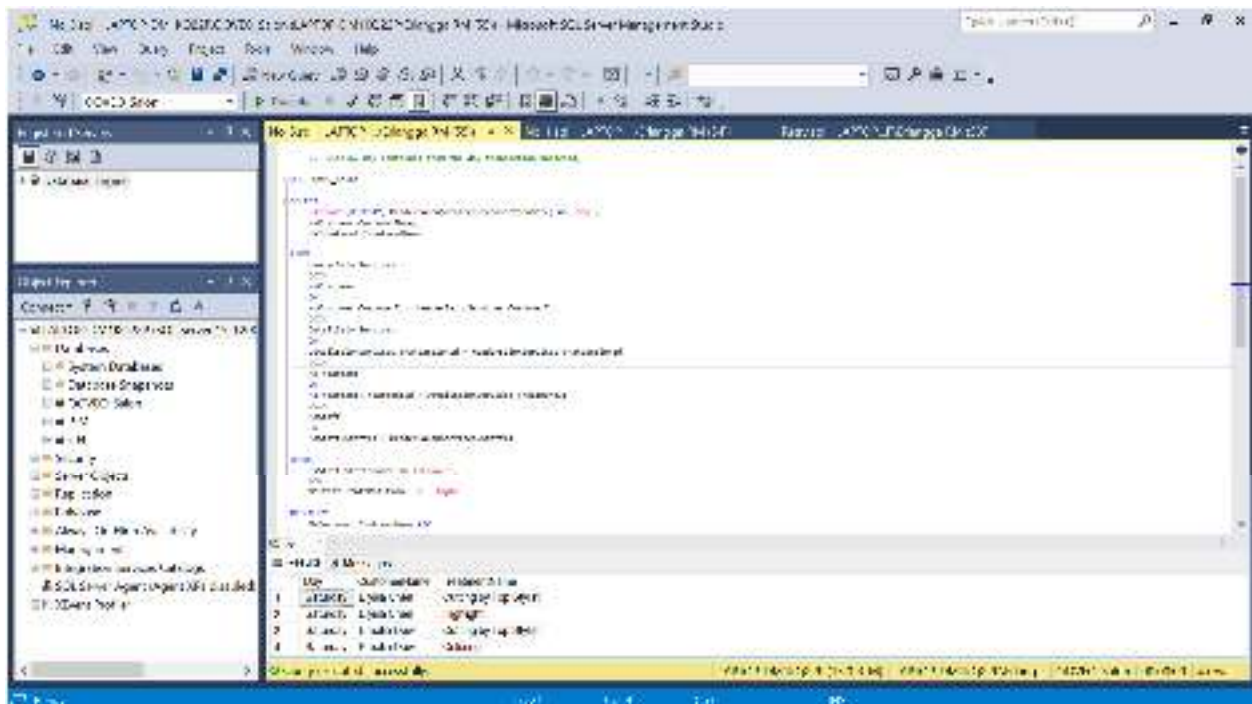
HeaderSalonServices
JOIN
MsCustomer
ON
MsCustomer.CustomerId = HeaderSalonServices.CustomerId
JOIN
DetailSalonServices
ON
DetailSalonServices.TransactionId = HeaderSalonServices.TransactionId
JOIN
MsTreatment
ON
MsTreatment.TreatmentId = DetailSalonServices.TreatmentId
JOIN
MsStaff
ON
MsStaff.StaffId = HeaderSalonServices.StaffId

WHERE

MsStaff.StaffGender IN ('Female')
AND
MsStaff.StaffPosition LIKE 'top%'

ORDER BY

MsCustomer.CustomerName ASC



6. Display the first data of CustomerId, CustomerName, TransactionId, Total Treatment (obtained from the total number of treatment). Then sort the data based on Total Treatment in descending format.

(top, count, join, group by, order by)

USE OOVEO_Salon

SELECT

TOP

1 MsCustomer.CustomerId,
MsCustomer.CustomerName,
HeaderSalonServices.TransactionId,
COUNT(DetailSalonServices.TreatmentId) AS 'Total Treatment'

FROM

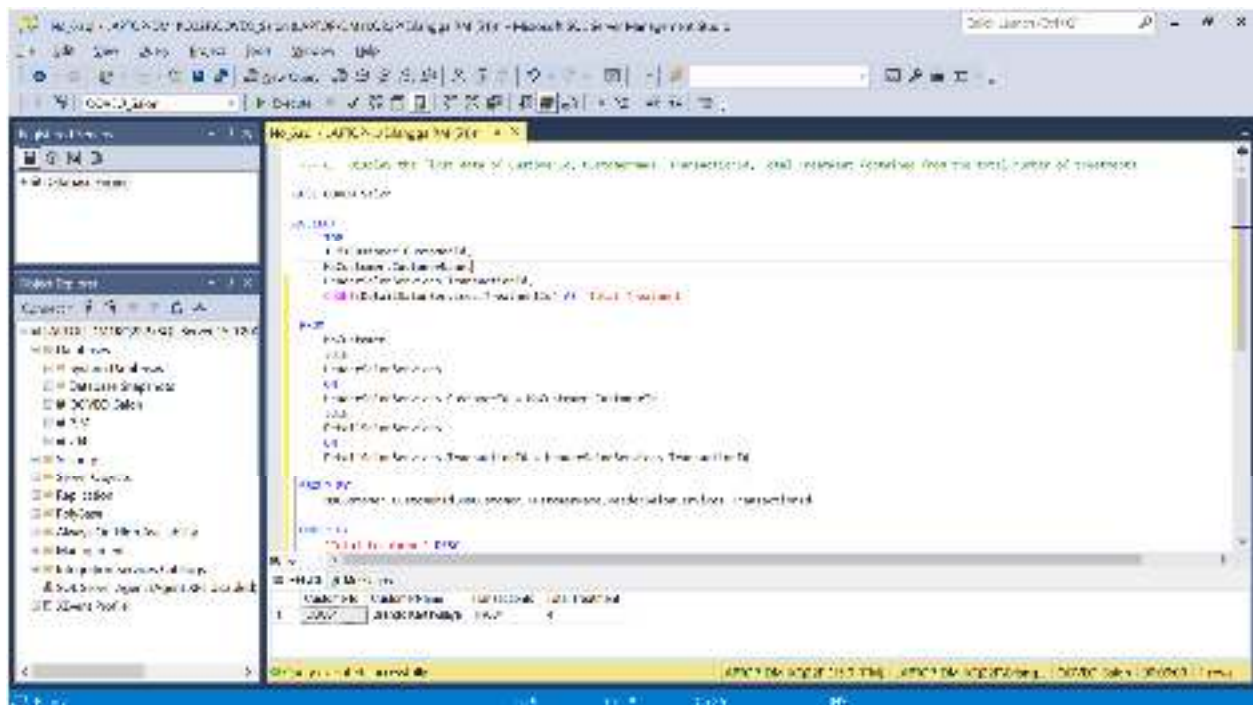
MsCustomer
JOIN
HeaderSalonServices
ON
HeaderSalonServices.CustomerId = MsCustomer.CustomerId
JOIN
DetailSalonServices
ON
DetailSalonServices.TransactionId = HeaderSalonServices.TransactionId

GROUP BY

MsCustomer.CustomerId,MsCustomer.CustomerName,HeaderSalonServices.TransactionId

ORDER BY

'Total treatment' DESC



7. Display CustomerId, TransactionId, CustomerName, and Total Price (obtained from total amount of price) for every transaction with total price is higher than the average value of treatment price from every transaction. Then sort the data based on Total Price in descending format.
(sum, join, alias subquery, avg, group by, having, order by)

USE OOVEO_Salon

SELECT

MsCustomer.CustomerId,
MsCustomer.CustomerName,
HeaderSalonServices.TransactionId,

SUM(MsTreatment.Price) AS 'Total Price'

FROM

MsCustomer
JOIN
HeaderSalonServices
ON
HeaderSalonServices.CustomerId = MsCustomer.CustomerId
JOIN
DetailSalonServices
ON
DetailSalonServices.TransactionId = HeaderSalonServices.TransactionId
JOIN
MsTreatment
ON
MsTreatment.TreatmentId = DetailSalonServices.TreatmentId

GROUP BY

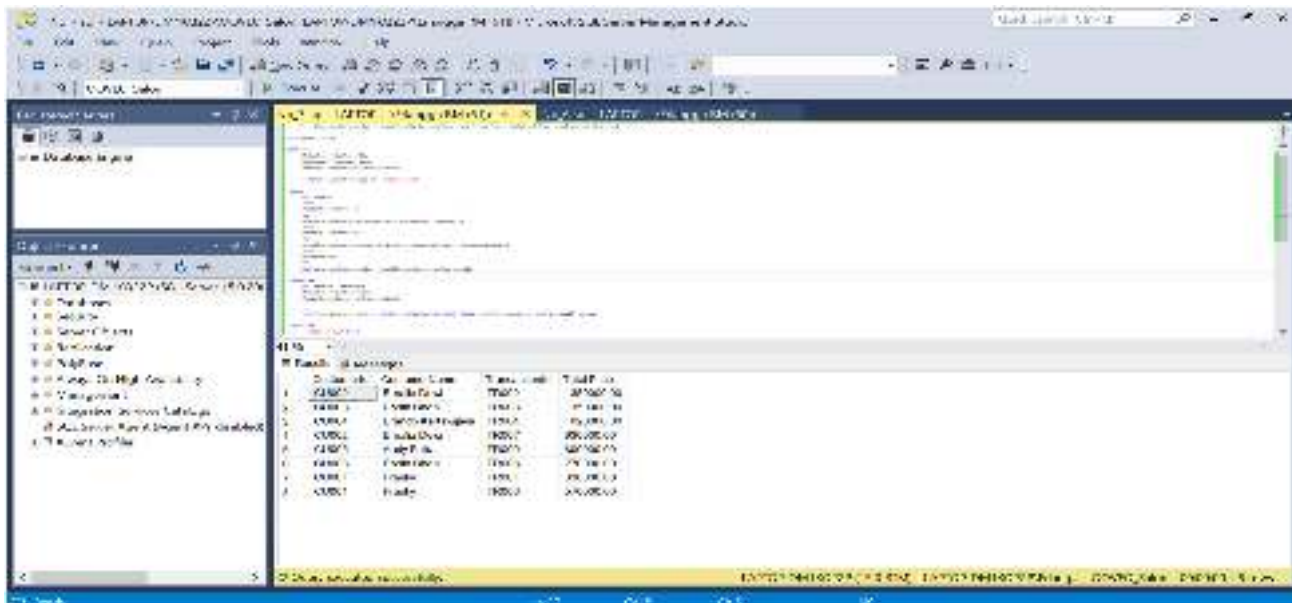
MsCustomer.CustomerId,
MsCustomer.CustomerName,
HeaderSalonServices.TransactionId

HAVING

SUM(MsTreatment.Price) > (SELECT SUM(av.Hasil) FROM (SELECT AVG(MsTreatment.Price)
AS Hasil) AS av)

ORDER BY

'Total Price' DESC



CustomerId	CustomerName	TransactionId	Total Price
1	MsCustomer	1	10000000
2	MsCustomer	2	10000000
3	MsCustomer	3	10000000
4	MsCustomer	4	10000000
5	MsCustomer	5	10000000
6	MsCustomer	6	10000000
7	MsCustomer	7	10000000
8	MsCustomer	8	10000000
9	MsCustomer	9	10000000
10	MsCustomer	10	10000000

7.1 Menghitung total masing-masing baris

USE OOVEO_Salon

SELECT
SUM(MsTreatment.Price), TransactionId

FROM
MsTreatment
JOIN
DetailSalonServices
ON
DetailSalonServices.TreatmentId = MsTreatment.TreatmentId

GROUP BY
DetailSalonServices.TransactionId

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Registered Servers' and 'Object Explorer' trees. The 'Object Explorer' shows the 'LAPTOP-DH16002N' server with a tree structure including 'Databases', 'Security', 'Server Objects', 'Replication', 'Availability', 'Management', 'Integration Services Catalogs', 'SQL Server Agent Jobs', and 'Z-Kernel-Android'. The right pane shows a query window with the following SQL code:

```
USE OOVEO_Salon

SELECT
SUM(MsTreatment.Price), TransactionId

FROM
MsTreatment
JOIN
DetailSalonServices
ON
DetailSalonServices.TreatmentId = MsTreatment.TreatmentId

GROUP BY
DetailSalonServices.TransactionId
```

Below the query window, the 'Results' tab shows the output of the query. The results are displayed in a table with two columns: 'TransactionId' and 'SUM(Price)'. The data is as follows:

TransactionId	SUM(Price)
TR001	10000.00
TR002	15000.00
TR003	20000.00
TR004	25000.00
TR005	30000.00
TR006	35000.00
TR007	40000.00
TR008	45000.00
TR009	50000.00

7.2 Menghitung rata-rata

USE OOVEO_Salon

SELECT

AVG(Average.Total)

FROM

(SELECT SUM(Price) AS Total FROM DetailSalonServices

JOIN

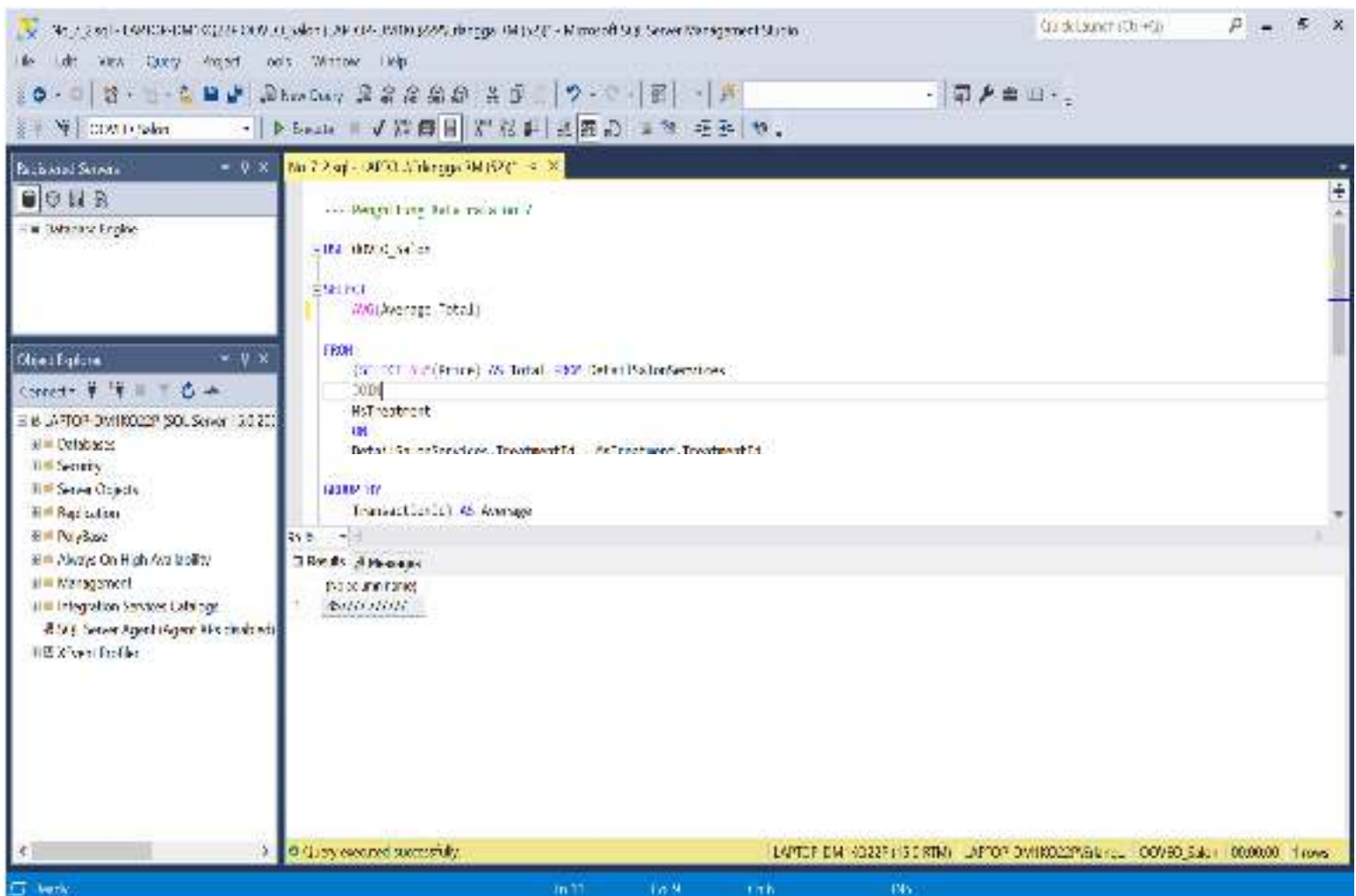
MsTreatment

ON

DetailSalonServices.TreatmentId = MsTreatment.TreatmentId

GROUP BY

TransactionId) AS Average



8. Display Name (obtained by adding 'Mr. ' in front of StaffName), StaffPosition, and StaffSalary for every male staff. The **combine** it with Name (obtained by adding 'Ms. ' in front of StaffName), StaffPosition, and StaffSalary for every female staff. Then sort the data based on Name and StaffPosition in ascending format.

(union, order by)

USE OOVEO_Salon

SELECT

```
'Mr. ' + MsStaff.StaffName AS 'Name',  
MsStaff.StaffPosition AS 'StaffPosition',  
MsStaff.StaffSalary
```

FROM

MsStaff

WHERE

MsStaff.StaffGender IN ('Male')

UNION

SELECT

```
'Ms. ' + MsStaff.StaffName AS 'Name',  
MsStaff.StaffPosition,  
MsStaff.StaffSalary
```

FROM

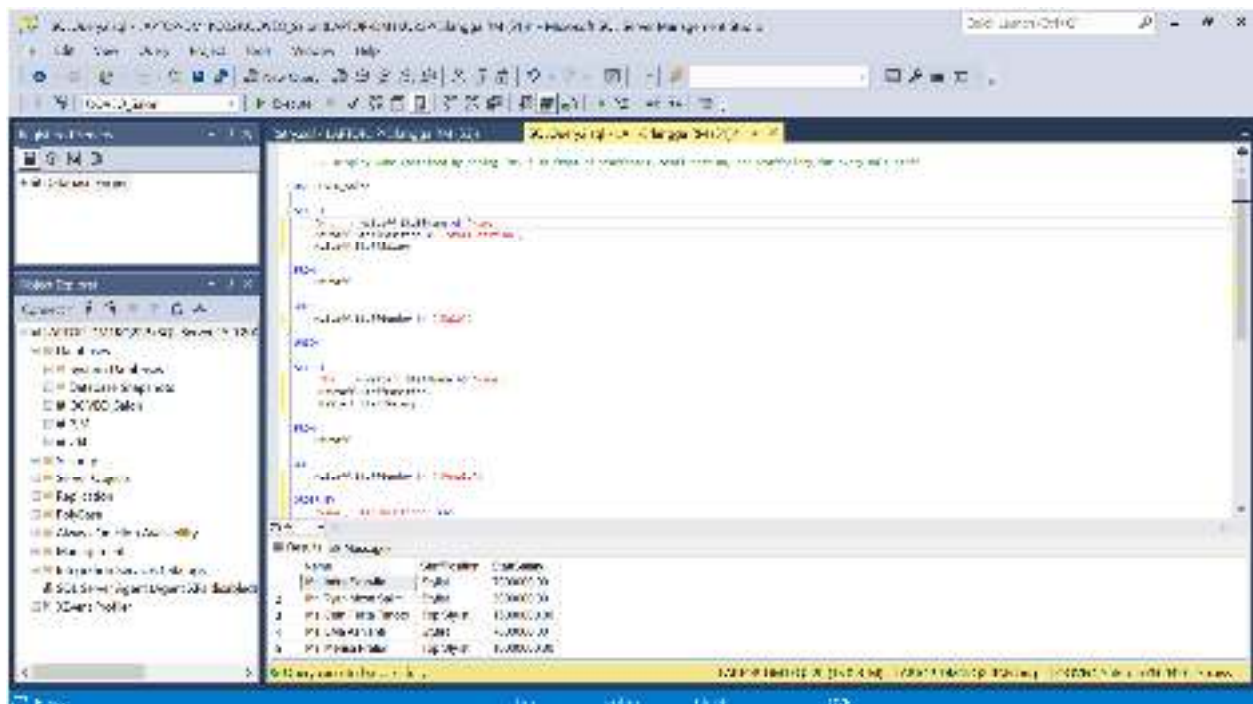
MsStaff

WHERE

MsStaff.StaffGender IN ('Female')

ORDER BY

'Name', 'StaffPosition' asc



9. Display TreatmentName, Price (obtained by adding 'Rp. ' in front of Price), and Status as 'Maximum Price' for every Treatment which price is the highest treatment's price. Then **combine** it with TreatmentName, Price (obtained by adding 'Rp. ' in front of Price), and Status as 'Minimum Price' for every Treatment which price is the lowest treatment's price.
(cast, max, alias subquery, union, min)

```
USE OOVEO_Salon
```

```
SELECT
```

```
    MsTreatment.TreatmentName,  
    'Rp. ' + CAST(MsTreatment.Price AS VARCHAR) AS Price,  
    'Minimum Price' AS 'Status'
```

```
FROM
```

```
    MsTreatment
```

```
WHERE
```

```
    Price = (SELECT MIN(Price) FROM MsTreatment)
```

```
UNION
```

```
SELECT
```

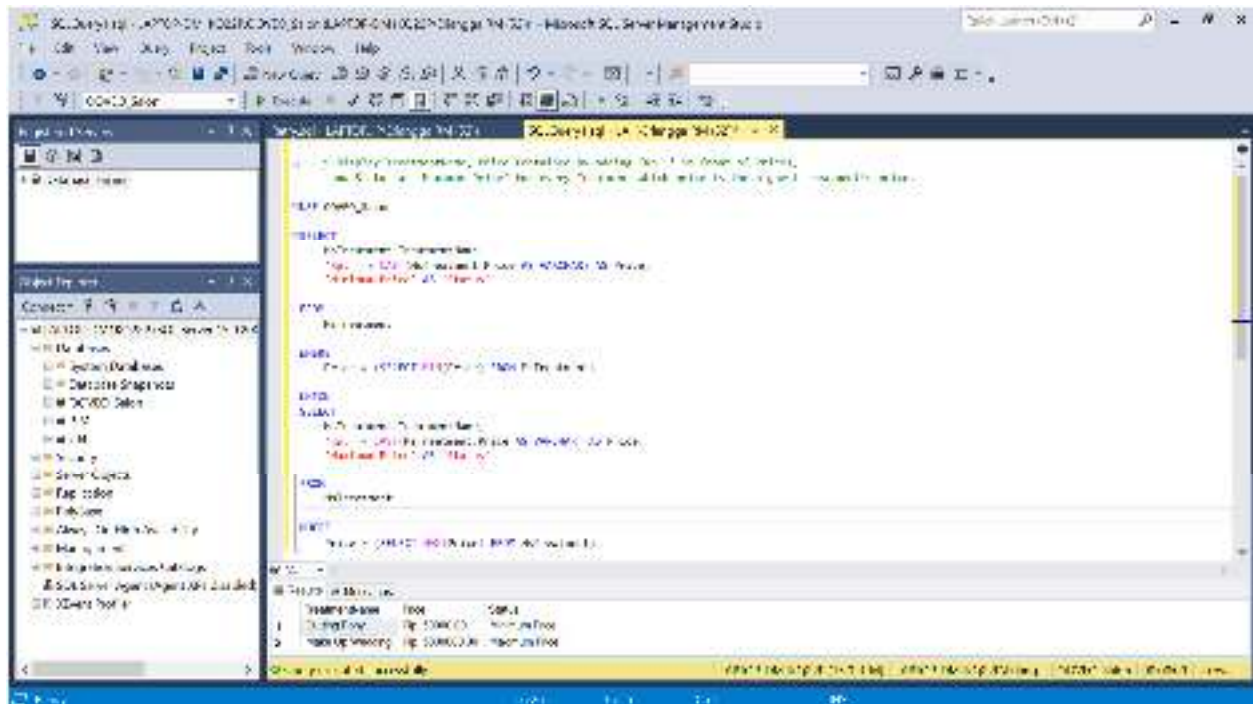
```
    MsTreatment.TreatmentName,  
    'Rp. ' + CAST(MsTreatment.Price AS VARCHAR) AS Price,  
    'Maximum Price' AS 'Status'
```

```
FROM
```

```
    MsTreatment
```

```
WHERE
```

```
    Price = (SELECT MAX(Price) FROM MsTreatment)
```



10. Display Longest Name of Staff and Customer (obtained from CustomerName), Length of Name (obtained from length of customer's name), Status as 'Customer' for every customer who has the longest name. Then **combine** it with Longest Name of Staff and Customer (obtained from StaffName), Length of Name (obtained from length of staff's name), Status as 'Staff' for every staff who has the longest name
(len, max, alias subquery, union)

```
USE OOEVO_Salon
```

```
SELECT
```

```
MsCustomer.CustomerName AS 'Longest Name Of Staff and Customer',  
LEN(MsCustomer.CustomerName) AS 'Length Of Name',  
'Customer' AS 'Status'
```

```
FROM
```

```
MsCustomer
```

```
WHERE
```

```
LEN(MsCustomer.CustomerName) = (SELECT MAX(LEN(MsCustomer.CustomerName))
```

```
FROM
```

```
MsCustomer)
```

```
UNION
```

```
SELECT
```

```
MsStaff.StaffName AS 'Longest Name Of Staff and Customer',  
LEN(MsStaff.StaffName) AS 'Length Of Name',  
'Staff' AS 'Status'
```

```
FROM
```

```
MsStaff
```

```
WHERE
```

```
LEN(MsStaff.StaffName) = (SELECT MAX(LEN(MsCustomer.CustomerName))
```

```
FROM
```

```
MsCustomer)
```

