

Nama : Norton Rafli Ahmad

Kelas : TI3B

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The main window shows a query result for the top 10 products by total quantity. The query is: `SELECT TOP 10 DimProduct.productName, FactOrder.totalQty FROM FactOrder JOIN DimProduct ON FactOrder.idProduct=DimProduct.id ORDER BY FactOrder.totalQty DESC`. The results table lists 10 products with their names and total quantities. To the right, the 'Connection Details' pane shows information about the connection to the 'miniature_storeDW' database, including connection time, state, and server version. The status bar at the bottom indicates the query was executed successfully.

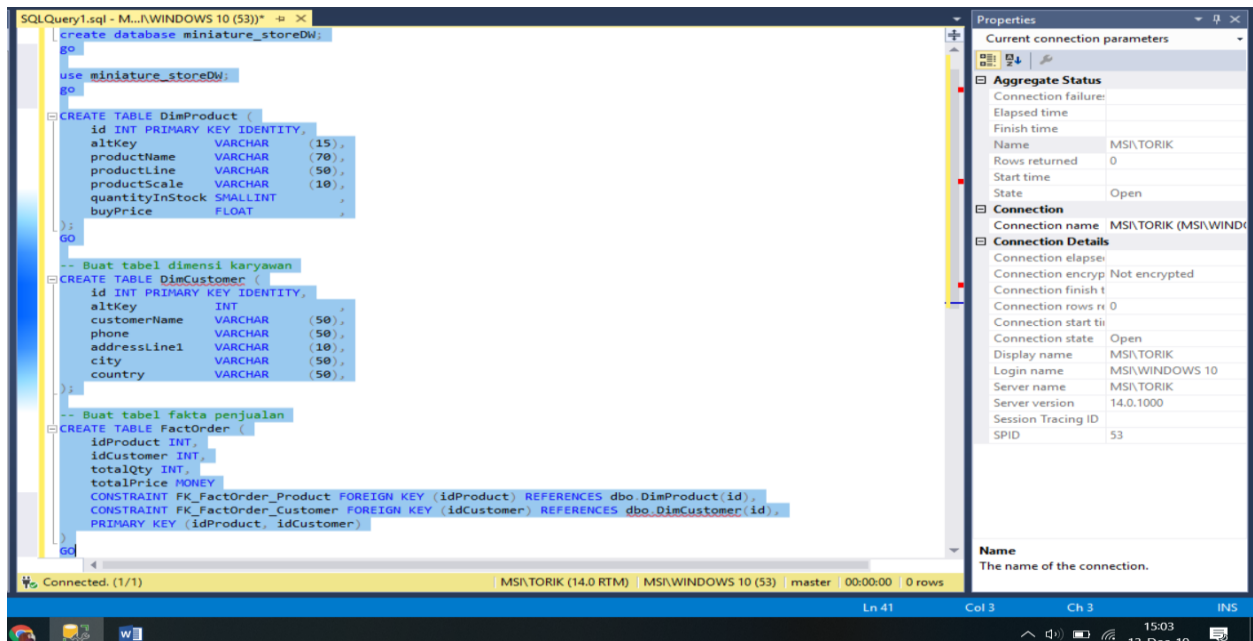
productName	totalQty
1992 Ferrari 360 Spider red	308
1958 Chevy Corvette Limited Edition	245
1970 Dodge Coronet	197
1957 Chevy Pickup	183
2002 Chevy Corvette	174
1939 Cadillac Limousine	167
1956 Porsche 356A Coupe	161
1992 Porsche Cayenne Turbo Silver	161
1949 Jaguar XK 120	158
1954 Greyhound Scenicruiser	157

Hasil Screenshot Diagram Bagian 1

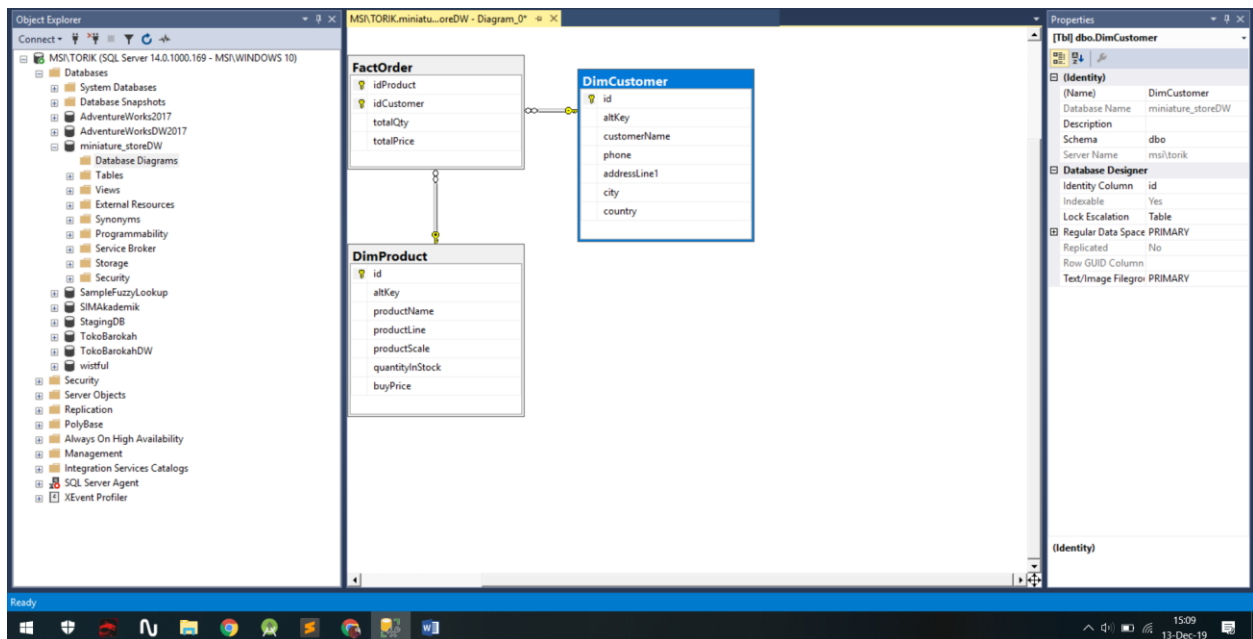
The screenshot shows the phpMyAdmin interface for the 'miniature_store' database. The left sidebar displays the database structure, including tables like 'customers', 'employees', 'orders', 'payments', 'products', and 'productlines'. The main area shows the structure of several tables: 'miniature_store.orders', 'miniature_store.products', 'miniature_store.customers', 'miniature_store.offices', 'miniature_store.payments', 'miniature_store.employees', 'miniature_store.orderdetails', and 'miniature_store.productlines'. Each table structure is listed with its columns and data types.

Table	Columns
miniature_store.orders	orderNumber: int(11), orderDate: datetime, requiredDate: datetime, shippedDate: datetime, status: enum('Cancelled','Disputed','In Process','On Hold','Resolved','Shipped'), comments: text, customerNumber: int(11)
miniature_store.products	productCode: varchar(15), productName: varchar(70), productLine: varchar(50), productScale: varchar(10), productVendor: varchar(50), productDescription: text, quantityInStock: smallint(6), buyPrice: double, MSRP: double
miniature_store.customers	customerNumber: int(11), customerName: varchar(50), contactLastName: varchar(50), contactFirstName: varchar(50), phone: varchar(50), addressLine1: varchar(50), addressLine2: varchar(50), city: varchar(50), state: varchar(50), postalCode: varchar(15), country: varchar(50), salesRepEmployeeNumber: int(11), creditLimit: double
miniature_store.offices	officeCode: int(10), city: varchar(50), phone: varchar(50), addressLine1: varchar(50), addressLine2: varchar(50), state: varchar(50), country: varchar(50), postalCode: varchar(15), territory: varchar(10)
miniature_store.payments	customerNumber: int(11), checkNumber: varchar(50), paymentDate: datetime, amount: double
miniature_store.employees	employeeNumber: int(11), lastName: varchar(50), firstName: varchar(50), extension: varchar(10), email: varchar(100), officeCode: varchar(10), file_url: varchar(250), jobTitle: varchar(50)
miniature_store.orderdetails	orderNumber: int(11), productCode: varchar(15), quantityOrdered: int(11), priceEach: double, orderLineNumber: smallint(6)
miniature_store.productlines	productLine: varchar(50), textDescription: varchar(4000), htmlDescription: mediumtext, image: mediumblob

Screenshot Sql Bagian 2



Screenshot Desain SQL SERVER



Soal Bagian 3

Customer

Control Flow | Data Flow | Parameters | Event Handlers | Package Explorer | Execution Results

Connection Managers

- MSI\TORIK.miniature_storeDW
- 127.0.0.1.miniature_store.root
- MSI\TORIK.miniature_storeDW1

Output

Show output from: Debug

Information: 0x402090E0 at FactOrders, OLE DB Destination [187]: The final commit for the data insertion in "OLE DB Destination" is beginning.

Information: 0x40043008 at FactOrders, SSIS.Pipeline: Post Execute phase is beginning.

Information: 0x40043008 at FactOrders, SSIS.Pipeline: "OLE DB Destination" wrote 2532 rows.

Information: 0x40043009 at FactOrders, SSIS.Pipeline: Cleanup phase is beginning.

SSIS package "C:\Users\WINDONS-10\source\repos\UASNORTON\UASNORTON\Package.dtsx" finished: Success.

The program "[17924] DtsDebugHost.exe: DTS" has exited with code 0 (0x0).

Solution Explorer

- Solution 'UASNORTON' (1 project)
- UASNORTON (SQL Server 2017)
- Project.params
- Connection Managers
- SSIS Packages
- Package.dtsx
- Package Parts
- Control Flow
- Miscellaneous
- Linked Azure Resources
- Azure-SSIS Integration Runtime
- Azure Storage

Getting Started (SSIS)

Welcome to SQL Server Integration Services (SSIS).

Samples

- [My First SSIS Solution](#)
This sample serves as an introduction to the SQL Server Integration Services development environment.
- [Control Flow Basics](#)
This sample introduces the fundamental concepts of the control flow.
- [Data Flow Basics](#)
This sample introduces the fundamental concepts of the data flow.

Control Flow | Data Flow | Parameters | Event Handlers | Package Explorer | Execution Results

70%

Package.dtsx [Design] - X

Control Flow Data Flow Parameters Event Handlers Package Explorer Execution Resu...

Data Flow Task: Data DimCustomers

DATA CUSTOMERS

Data Conversion

OLE DB Destination

Connection Managers

MSI\TORIK.miniature_storeDW 127.0.0.1.miniature_store.root MSI\TORIK.miniature_storeDW1

Output

Show output from: Debug

Information: 0x402090f0 at Data DimProducts, OLE DB Destination [71]: The final commit for the data insertion in "OLE DB Destination" has ended

Information: 0x40043008 at Data DimProducts, SSIS.Pipeline: Post Execute phase is beginning.

Information: 0x40043008 at Data DimProducts, SSIS.Pipeline: "OLE DB Destination" wrote 110 rows.

Information: 0x40043009 at Data DimProducts, SSIS.Pipeline: Cleanup phase is beginning.

SSIS package "C:\Users\WINDOWS 10\source\repos\UASNORTON\UASNORTON\Package.dtsx" Finished: Success.

The program "[3140] DtsDebugHost.exe: DTS" has exited with code 0 (0x0).

Error List Variables Output

Solution Explorer

Search Solution Explorer (Ctrl+):

Solution 'UASNORTON' (1 project)

UASNORTON (SQL Server 2017)

Project.params

Connection Managers

SSIS Packages

Package.dtsx

Package Parts

Control Flow

Miscellaneous

Linked Azure Resources

Azure-SSIS Integration Runtime

Azure Storage

Solution Explorer Team Explorer

Getting Started (SSIS)

Welcome to SQL Server Integration Services (SSIS).

Samples

My First SSIS Solution

This sample serves as an introduction to the SQL Server Integration Services development environment.

Control Flow Basics

This sample introduces the fundamental concepts of the control flow.

Data Flow Basics

This sample introduces the fundamental concepts of the data flow.

Getting Started (SSIS) Properties

Add to Source Control

18:07 13-Dec-19

```
select * from DimProduct;
select * from DimCustomer;
go

CREATE TABLE DimProduct (
    id INT PRIMARY KEY IDENTITY,
    altKey VARCHAR (15),
    productName VARCHAR (70),
    productLine VARCHAR (50),
    productScale VARCHAR (50),
    quantityInStock SMALLINT,
    buyPrice FLOAT
)
```

100 %

	id	altKey	customerName	phone	addressLine1	city	country
1	1	103	Atelier graphique	40.32.2555	54, rue Royale	Nantes	France
2	2	112	Signal Gift Stores	7025551838	8489 Strong St.	Las Vegas	USA
3	3	114	Australian Collectors, Co.	03 9520 4555	636 St Kilda Road	Melbourne	Australia
4	4	119	La Rochelle Gifts	40.67.8555	67, rue des Cinquante Otages	Nantes	France
5	5	121	Baane Mini Imports	07-98 9555	Erling Skakkes gate 78	Stavem	Norway
6	6	124	Mini Gifts Distributors Ltd.	4155551450	5677 Strong St.	San Rafael	USA
7	7	125	Havel & Zbyszek Co	(26) 642-7555	ul. Filrowa 68	Warszawa	Poland
8	8	128	Blauer See Auto, Co.	+49 69 66 90 2555	Lyonerstr. 34	Frankfurt	Germany
9	9	129	Mini Wheels Co.	6505555787	5557 North Pendale Street	San Francisco	USA
10	10	131	Land of Toys Inc.	2125557818	897 Long Airport Avenue	NYC	USA
11	11	141	Euro+ Shopping Channel	(91) 555 94 44	C/ Moralzarzal, 86	Madrid	Spain
12	12	144	Volvo Model Replicas, Co	0921-12 3555	Berguvsvägen 8	Luleå	Sweden
13	13	145	Danish Wholesale Imports	31 12 3555	Vinbæltet 34	Kobenhavn	Denmark
14	14	146	Savaleu & Harriot, Co	78 12 5555	2, rue du Commerce	Lyon	France

Query executed successfully. MSI\TORIK (14.0 RTM) MSI\WINDOWS 10 (53) miniature_storeDW 00:00:00 122 rows

Ln 10 Col 1 Ch 1 OVR

18:09 13-Dec-19

Name	MSI\TORIK
Rows returned	122
Start time	13-Dec-19 18:09:01
State	Open

Connection

Connection name MSI\TORIK (MSI\WINDOWS 10)

Connection Details

Connection elapsed: 00:00:00.086

Connection encrypt Not encrypted

Connection finish t 13-Dec-19 18:09:01

Connection rows r 122

Connection start tti 13-Dec-19 18:09:01

Connection state Open

Display name MSI\TORIK

Login name MSI\WINDOWS 10

Server name MSI\TORIK

Server version 14.0.1000

Session Tracing ID

SPID 53

Name

The name of the connection.

Product

Control Flow Data Flow Parameters Event Handlers Package Explorer Execution Results

Data Flow Task: Data DimProducts

```

    graph TD
      DataProduct[Data Product] --> DataConversion[Data Conversion]
      DataConversion --> OLEDBDestination[OLE DB Destination]
  
```

Connection Managers

- MSI\TORIK.miniature_storeDW
- 127.0.0.1.miniature_store.root
- MSI\TORIK.miniature_storeDW1

Output

Show output from: Debug

```

Information: 0x402099E0 at Data DimProducts, OLE DB Destination [71]: The final commit for the data insertion in "OLE DB Destination" has ended
Information: 0x40043008 at Data DimProducts, SSIS.Pipeline: Post Execute phase is beginning.
Information: 0x40043008 at Data DimProducts, SSIS.Pipeline: "OLE DB Destination" wrote 110 rows.
Information: 0x40043009 at Data DimProducts, SSIS.Pipeline: Cleanup phase is beginning.
SSIS package "C:\Users\WINDOWS_10\source\repos\UASNORTON\UASNORTON\Package.dtsx" finished: Success.
The program "[3140] DtsDebugHost.exe" has exited with code 0 (0x0).
  
```

Error List Variables Output

Getting Started (SSIS) Properties

Search Solution Explorer (Ctrl+):

- Solution 'UASNORTON' (1 project)
 - UASNORTON (SQL Server 2017)
 - Project.params
 - Connection Managers
 - SSIS Packages
 - Package.dtsx
 - Package Parts
 - Control Flow
 - Miscellaneous
 - Linked Azure Resources
 - Azure-SSIS Integration Runtime
 - Azure Storage

Getting Started (SSIS)

Welcome to SQL Server Integration Services (SSIS).

Samples

[My First SSIS Solution](#)

This sample serves as an introduction to the SQL Server Integration Services development environment.

[Control Flow Basics](#)

This sample introduces the fundamental concepts of the control flow.

[Data Flow Basics](#)

This sample introduces the fundamental concepts of the data flow.

```

use miniature_storeDW;
select * from DimProduct;
select * from DimCustomer;
go

CREATE TABLE DimProduct (
    id INT PRIMARY KEY IDENTITY,
    altKey VARCHAR (15),
    productName VARCHAR (70),
    productLine VARCHAR (50),
    productScale VARCHAR (50),
    quantityInStock SMALLINT,
    buyPrice FLOAT
);
  
```

Results

id	altKey	productName	productLine	productScale	quantityInStock	buyPrice
1	S10_1678	1969 Harley Davidson Ultimate Chopper	Motorcycles	1:10	7933	48.81
2	S10_1949	1952 Alpine Renault 1300	Classic Cars	1:10	7305	98.58
3	S10_2016	1996 Moto Guzzi 1100	Motorcycles	1:10	6625	68.99
4	S10_4698	2003 Harley-Davidson Eagle Drag Bike	Motorcycles	1:10	5582	91.02
5	S10_4757	1972 Alfa Romeo GTA	Classic Cars	1:10	3252	85.68
6	S10_4962	1962 Lancia Delta 16V	Classic Cars	1:10	6791	103.42
7	S12_1099	1968 Ford Mustang	Classic Cars	1:12	68	95.34
8	S12_1108	2001 Ferrari Enzo	Classic Cars	1:12	3619	95.59
9	S12_1666	1958 Setra Bus	Trucks and Buses	1:12	1579	77.9
10	S12_2823	2002 Suzuki XREO	Motorcycles	1:12	9997	66.27
11	S12_3148	1969 Corvair Monza	Classic Cars	1:18	6906	89.14
12	S12_3380	1968 Dodge Charger	Classic Cars	1:12	9123	75.16
13	S12_3891	1969 Ford Falcon	Classic Cars	1:12	1049	83.05
14	S12_3990	1970 Plymouth Hemi Cuda	Classic Cars	1:12	5663	31.92

Query executed successfully. MSI\TORIK (14.0 RTM) MSI\WINDOWS 10 (53) miniature_storeDW | 00:00:00 | 110 rows

Finish time 13-Dec-19 18:08:45

Name MSI\TORIK

Rows returned 110

Start time 13-Dec-19 18:08:45

State Open

Connection

Connection name MSI\TORIK (MSI\WINDOWS 10)

Connection Details

Connection elapsed: 00:00:00.126

Connection encrypt Not encrypted

Connection finish time 13-Dec-19 18:08:45

Connection rows returned 110

Connection start time 13-Dec-19 18:08:45

Connection state Open

Display name MSI\TORIK

Login name MSI\WINDOWS 10

Server name MSI\TORIK

Server version 14.0.1000

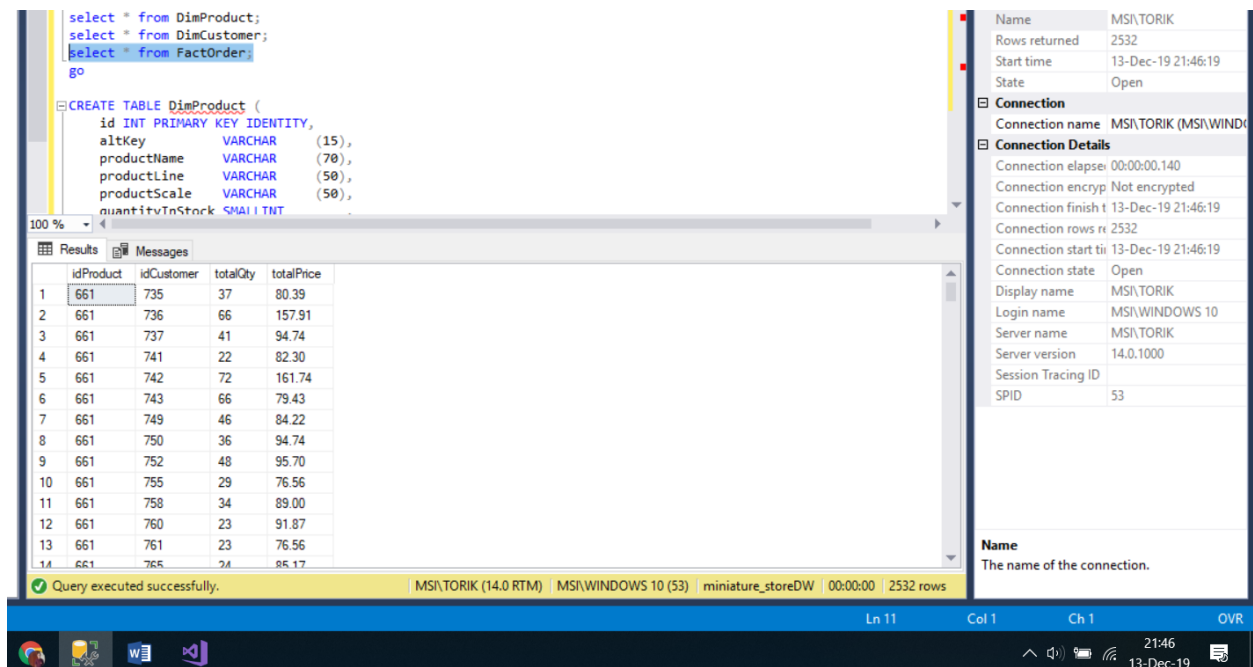
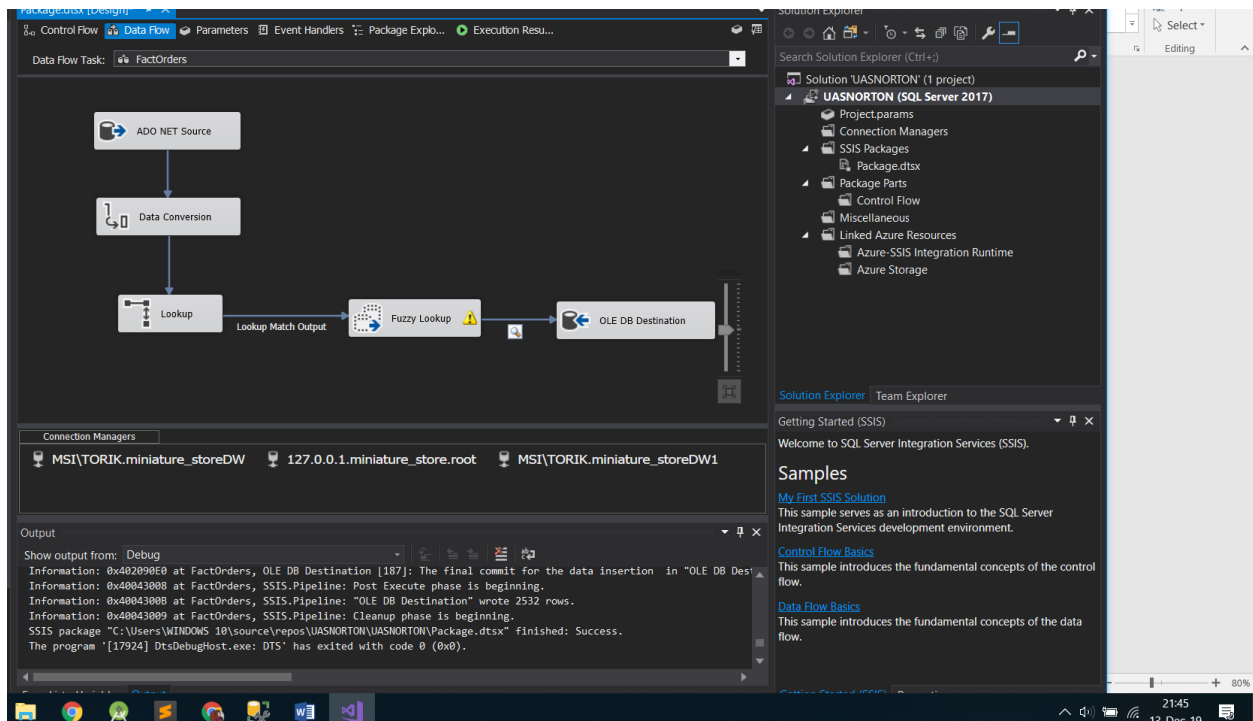
Session Tracing ID

SPID 53

Name

The name of the connection.

Fuct Order



Soal bagian 4

SQL SERVER Agent

SQL query window showing the execution of a script to create a database and tables, and a summary of the results.

```

use master;

create database miniature_storeDW;
go

drop table dbo.FactOrder;
drop table dbo.DimCustomer;
drop table dbo.DimProduct;
use miniature_storeDW;
select * from DimProduct;
select * from DimCustomer;
select * from FactOrder;
go

CREATE TABLE DimProduct (
    id INT PRIMARY KEY,
    productName VARCHAR(50),
    productLine VARCHAR(50),
    productScale VARCHAR(50),
    quantityInStock INT
);

```

Results window showing the output of the query:

	idProduct	idCustomer	productName	productLine	productScale	quantityInStock
1	661	735				
2	661	736	66	157.91		
3	661	737	41	94.74		
4	661	741	22	82.30		
5	661	742	72	161.74		
6	661	743	66	79.43		
7	661	749	46	84.22		
8	661	750	36	94.74		
9	661	752	48	95.70		
10	661	755	29	76.56		
11	661	758	34	89.00		
12	661	760	23	91.87		
13	661	761	23	76.56		
14	661	765	24	85.17		

Properties window showing connection details for MSI\TORIK (MSI\WIND):

- Connection name: MSI\TORIK (MSI\WIND)
- Connection details:
 - Connection elapsed: 00:00:00.140
 - Connection encrypted: Not encrypted
 - Connection finish time: 13-Dec-19 21:46:19
 - Connection rows returned: 2532
 - Connection start time: 13-Dec-19 21:46:19
 - Connection state: Open
 - Display name: MSI\TORIK
 - Login name: MSI\WINDOWS 10
 - Server name: MSI\TORIK
 - Server version: 14.0.1000
 - Session Tracing ID: 53

Taskbar shows the system clock at 21:53.

Soal NO 1

MS\TORIK.miniatu...oreDW - Diagram 0*

```

totalPrice MONEY
CONSTRAINT FK_FactOrder_Product FOREIGN KEY (idProduct) REFERENCES dbo.DimProduct(id),
CONSTRAINT FK_FactOrder_Customer FOREIGN KEY (idCustomer) REFERENCES dbo.DimCustomer(id),
PRIMARY KEY (idProduct, idCustomer)
)
GO
SELECT TOP 10 dc.customerName, dp.productName, f.totalQty, f.totalPrice
FROM FactOrder as f
LEFT JOIN dimCustomer as dc
ON dc.id = f.idCustomer
LEFT JOIN DimProduct as dp
ON dp.id = f.idProduct
ORDER BY totalPrice desc;

```

Results

	customerName	productName	totalQty	totalPrice
1	Euro+ Shopping Channel	1992 Ferrari 360 Spider red	308	1210.78
2	Mini Gifts Distributors Ltd.	2001 Ferrari Enzo	140	687.82
3	Mini Gifts Distributors Ltd.	1969 Ford Falcon	137	636.72
4	Mini Gifts Distributors Ltd.	1998 Chrysler Plymouth Prowler	123	615.64
5	Mini Gifts Distributors Ltd.	1928 Mercedes-Benz SSK	107	614.25
6	Euro+ Shopping Channel	1998 Chrysler Plymouth Prowler	125	573.06
7	Euro+ Shopping Channel	1964 Mercedes Tour Bus	154	562.11
8	Euro+ Shopping Channel	1992 Porsche Cayenne Turbo Silver	161	537.00
9	Euro+ Shopping Channel	Diamond T620 Semi-Skirted Tanker	141	532.46
10	Euro+ Shopping Channel	1956 Porsche 356A Coupe	161	525.21

Query executed successfully. | MS\TORIK (14.0 RTM) | MS\WINDOWS 10 (53) | miniature_storeDW | 00:00:00 | 10 rows

Properties

Current connection parameters

Aggregate Status

Connection failure:

Elapsed time 00:00:00.036

Finish time 13-Dec-19 21:58:41

Name MS\TORIK

Rows returned 10

Start time 13-Dec-19 21:58:41

State Open

Connection

Connection name MS\TORIK (MS\WIND

Connection Details

Connection elapsed 00:00:00.036

Connection encrypt Not encrypted

Connection finish t 13-Dec-19 21:58:41

Connection rows r 10

Connection start t 13-Dec-19 21:58:41

Connection state Open

Display name MS\TORIK

Login name MS\WINDOWS 10

Server name MS\TORIK

Server version 14.0.1000

Session Tracing ID

SPID 53

Name

The name of the connection.

Soal NO 2

```

ORDER BY totalPrice desc;
SELECT max(TotalPrice) from FactOrder;

```

Results

(No column name)
1210.78

Query executed successfully. | MS\TORIK (14.0 RTM) | MS\WINDOWS 10 (53) | miniature_storeDW | 00:00:00 | 1 rows

Connection

Connection name MS\TORIK (MS\WIND

Connection Details

Connection elapsed 00:00:00.059

Connection encrypt Not encrypted

Connection finish t 13-Dec-19 21:59:23

Connection rows r 1

Connection start t 13-Dec-19 21:59:23

Connection state Open

Display name MS\TORIK

Login name MS\WINDOWS 10

Server name MS\TORIK

Server version 14.0.1000

Session Tracing ID

SPID 53

Name

The name of the connection.

Soal NO 3

 Results  Messages

✔ Query executed successfully.

MSI\TORIK (14.0 RTM)	MSI\WINDOWS 10 (53)	miniature_storeDW	00:00:00	10 rows
----------------------	---------------------	-------------------	----------	---------

Connection elapsed	00:00:00.030
Connection encryption	Not encrypted
Connection finish time	13-Dec-19 22:00:24
Connection rows read	10
Connection start time	13-Dec-19 22:00:24
Connection state	Open
Display name	MS\TORIK
Login name	MS\WINDOWS 10
Server name	MS\TORIK
Server version	14.0.1000
Session Tracing ID	
SPID	53

The name of the connection.