LAPORAN PRAKTIKUM
BASIS DATA LANJUT
PERTEMUAN-13 METADATA

DISUSUN OLEH :

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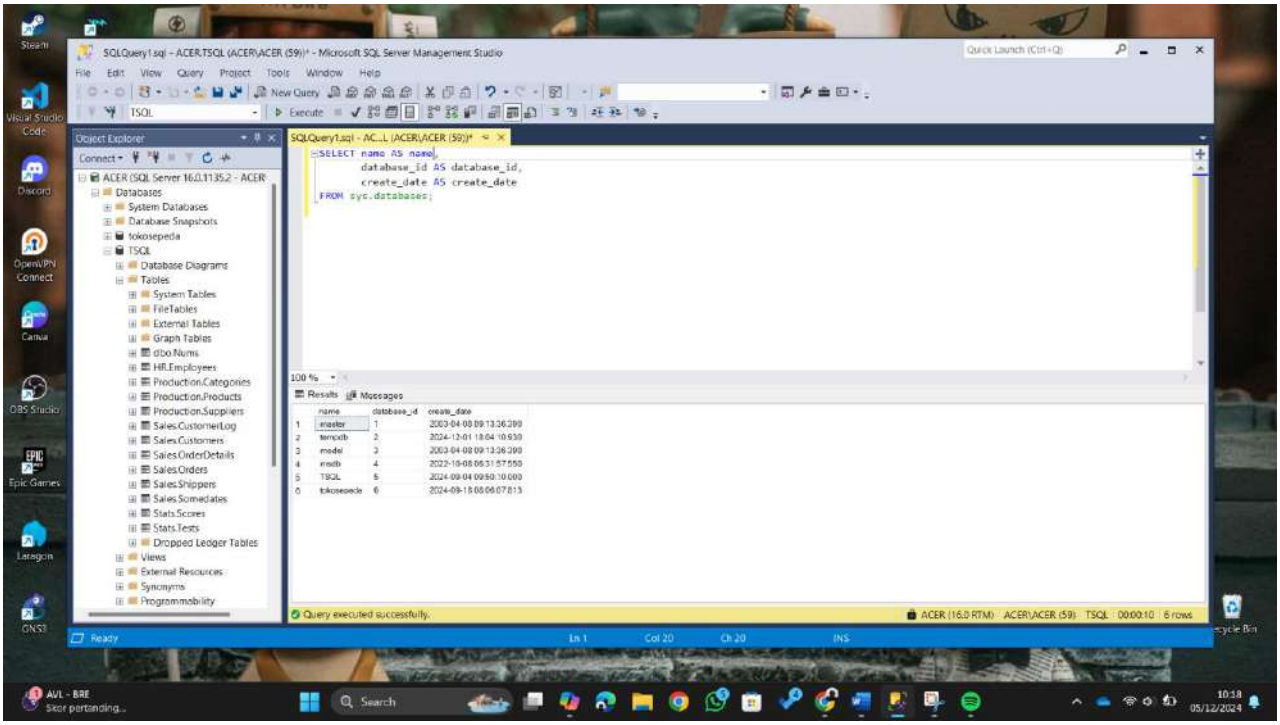
POLITEKNIK NEGERI MALANG
MALANG
2024

Praktikum – Bagian 1: View-view yang Berkaitan dengan System Catalog

Langkah	Keterangan
1	[Soal-1] Buatlah SQL yang menampilkan nama, id, dan tanggal pembuatan semua database yang ada di server SQL Server

Results | Messages

	name	database_id	create_date
1	master	1	2003-04-08 09:13:36.390
2	tempdb	2	2017-12-01 13:31:10.330
3	model	3	2003-04-08 09:13:36.390
4	msdb	4	2016-04-30 00:46:38.773
5	ReportServer$SQLEXPRESS	5	2017-05-17 08:32:30.007
6	ReportServer$SQLEXPRESSTempDB	6	2017-05-17 08:32:30.810
7	akademik	7	2017-06-04 00:12:56.963
8	akademik_mi1e	8	2017-06-05 11:09:00.717
9	akademik_ti1f	9	2017-06-06 09:47:32.610
10	akademik_ti1g	10	2017-06-06 11:52:52.633
11	TSQL2012	11	2017-11-09 20:08:18.197
12	MarketDev	12	2017-11-28 00:38:09.040
13	DbBaru	13	2017-11-28 01:11:58.457
14	NewDb	14	2017-11-28 10:13:30.700
15	Branch	15	2017-11-28 10:22:03.573
16	TestIE	17	2017-11-29 14:33:19.213



2	[Soal-2] Buatlah SQL yang menampilkan data-data semua tabel yang dibuat oleh pengguna (users)! **Petunjuk:** Perhatikan tabel berikut untuk memfilter tabel yang sesuai!

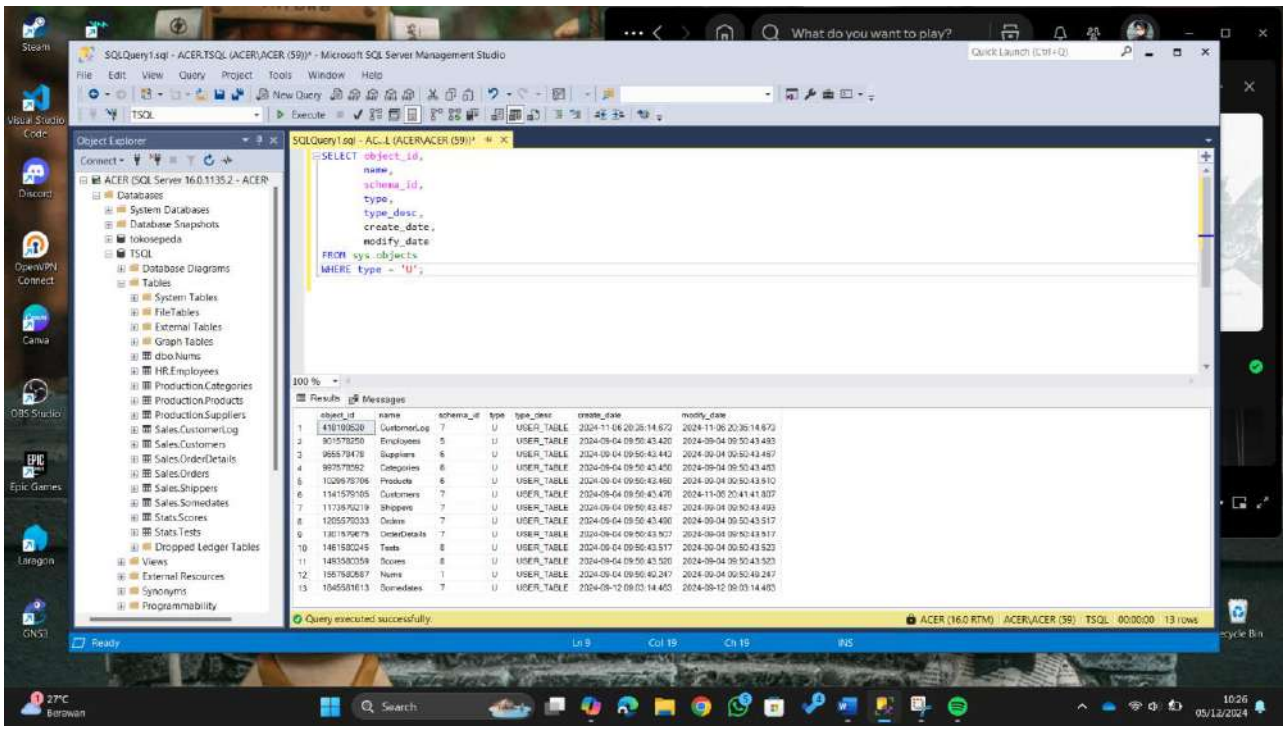
Results | Messages

	type	type_desc
1	SQ	SERVICE_QUEUE
2	U	USER_TABLE
3	V	VIEW
4	S	SYSTEM_TABLE
5	IT	INTERNAL_TABLE
6	P	SQL_STORED_PROCEDURE

Pastikan hasil akhirnya seperti berikut:

Results | Messages

	object_id	name	schema_id	type	type_desc	create_date	modify_date
1	117575457	spt_fallback_db	1	U	USER_TABLE	2003-04-08 09:18:01.557	2016-04-30 00:48:23.147
2	133575514	spt_fallback_dev	1	U	USER_TABLE	2003-04-08 09:18:02.870	2016-04-30 00:48:23.167
3	149575571	spt_fallback_usg	1	U	USER_TABLE	2003-04-08 09:18:04.180	2016-04-30 00:48:23.187
4	279672044	Employees	5	U	USER_TABLE	2017-11-29 14:41:27.130	2017-11-29 14:41:27.130
5	599673184	test	1	U	USER_TABLE	2017-12-01 14:23:34.293	2017-12-01 14:23:34.293
6	615673241	TabelNyobaSaja	5	U	USER_TABLE	2017-12-01 14:24:45.213	2017-12-01 14:24:45.213

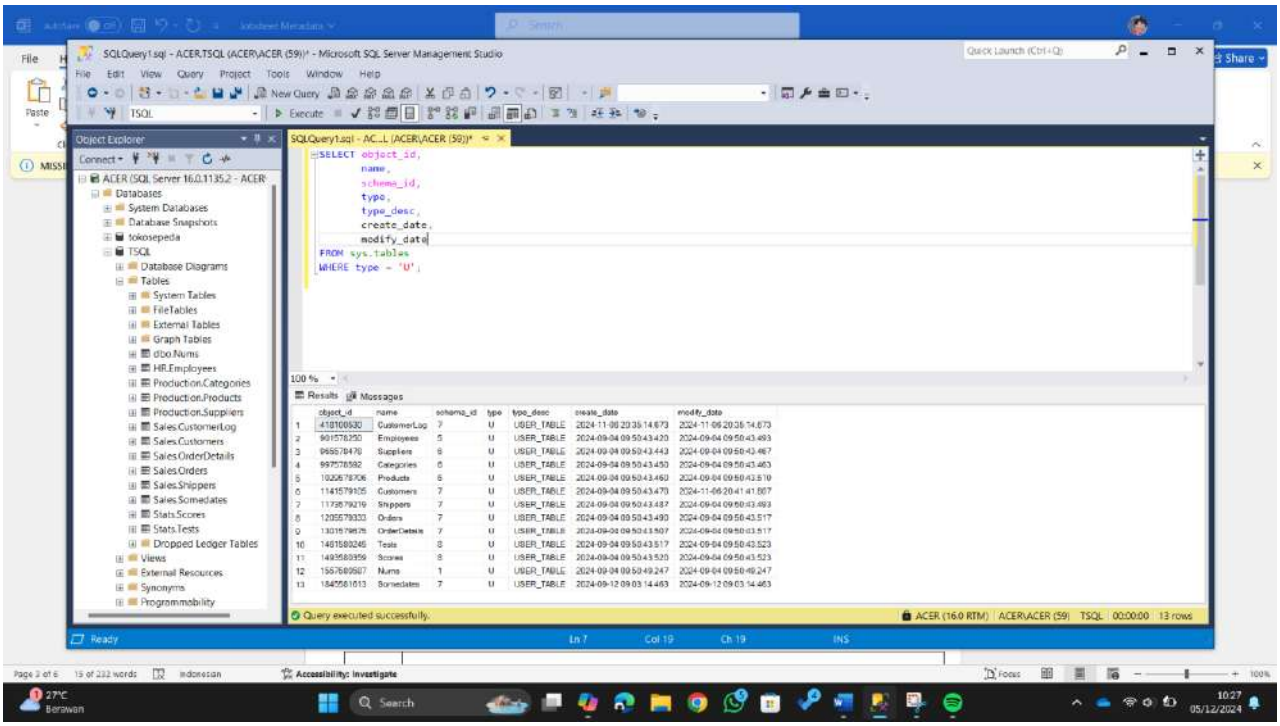


3

[Soal-3] Dengan maksud dan tujuan yang sama seperti task sebelumnya, buatlah SQL dengan memanfaatkan tabel sys.tables!

Results | Messages

	object_id	name	schema_name	type	type_desc	create_date	modify_date
1	117575457	spt_fallback_db	dbo	U	USER_TABLE	2003-04-08 09:18:01.557	2016-04-30 00:48:23.147
2	133575514	spt_fallback_dev	dbo	U	USER_TABLE	2003-04-08 09:18:02.870	2016-04-30 00:48:23.167
3	149575571	spt_fallback_usg	dbo	U	USER_TABLE	2003-04-08 09:18:04.180	2016-04-30 00:48:23.187
4	279672044	Employees	HR	U	USER_TABLE	2017-11-29 14:41:27.130	2017-11-29 14:41:27.130
5	599673184	test	dbo	U	USER_TABLE	2017-12-01 14:23:34.293	2017-12-01 14:23:34.293
6	615673241	TabelNyobaSaja	HR	U	USER_TABLE	2017-12-01 14:24:45.213	2017-12-01 14:24:45.213
7	1483152329	spt_monitor	dbo	U	USER_TABLE	2016-04-30 00:46:37.557	2016-04-30 00:48:23.213
8	1787153412	MSreplication_options	dbo	U	USER_TABLE	2016-04-30 00:47:59.690	2017-05-17 08:33:05.127

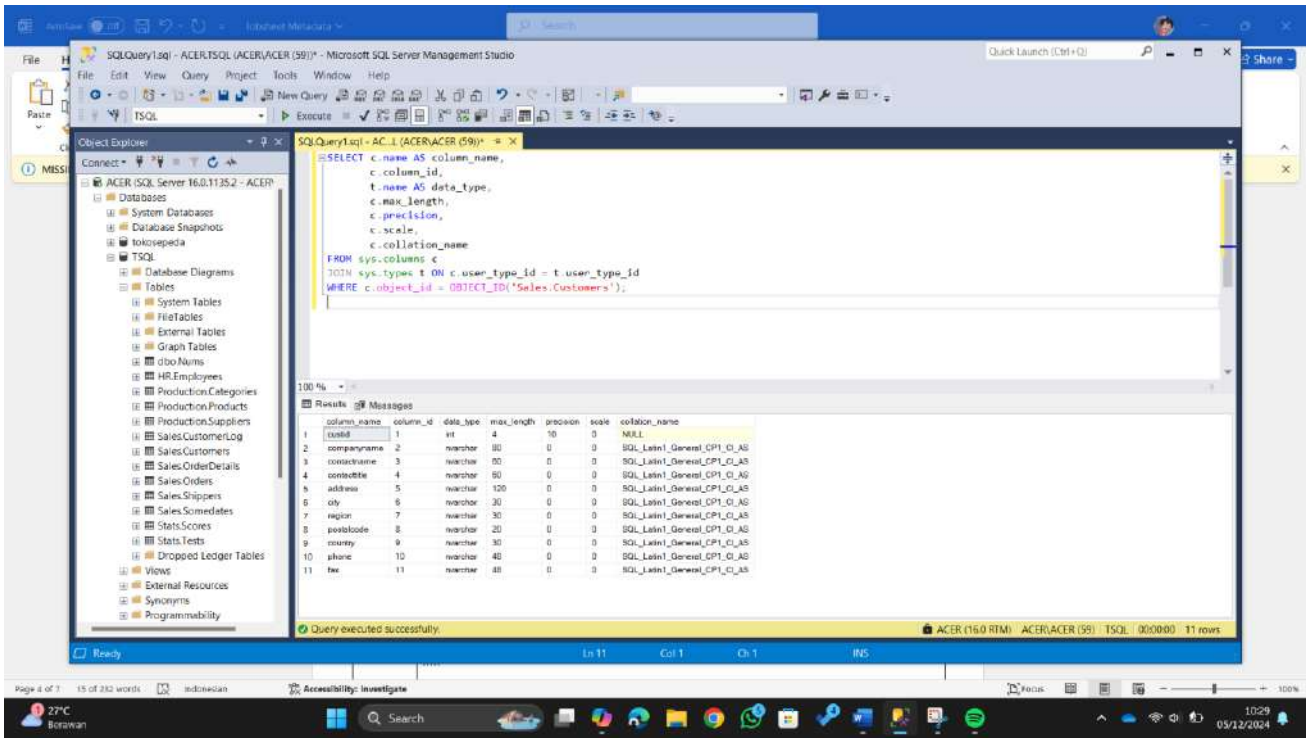


4

[Soal-4] Tampilkan semua kolom yang dimiliki tabel Sales.Customers berikut tipe data yang digunakan pada masing-masing kolom.

Results | Messages

	column_name	column_id	data_type	max_length	precision	scale	collation_name
1	custid	1	int	4	10	0	NULL
2	companyname	2	nvarchar	80	0	0	SQL_Latin1_General_CP1_CI_AS
3	contactname	3	nvarchar	60	0	0	SQL_Latin1_General_CP1_CI_AS
4	contacttitle	4	nvarchar	60	0	0	SQL_Latin1_General_CP1_CI_AS
5	address	5	nvarchar	120	0	0	SQL_Latin1_General_CP1_CI_AS
6	city	6	nvarchar	30	0	0	SQL_Latin1_General_CP1_CI_AS
7	region	7	nvarchar	30	0	0	SQL_Latin1_General_CP1_CI_AS
8	postalcode	8	nvarchar	20	0	0	SQL_Latin1_General_CP1_CI_AS
9	country	9	nvarchar	30	0	0	SQL_Latin1_General_CP1_CI_AS
10	phone	10	nvarchar	48	0	0	SQL_Latin1_General_CP1_CI_AS
11	fax	11	nvarchar	48	0	0	SQL_Latin1_General_CP1_CI_AS

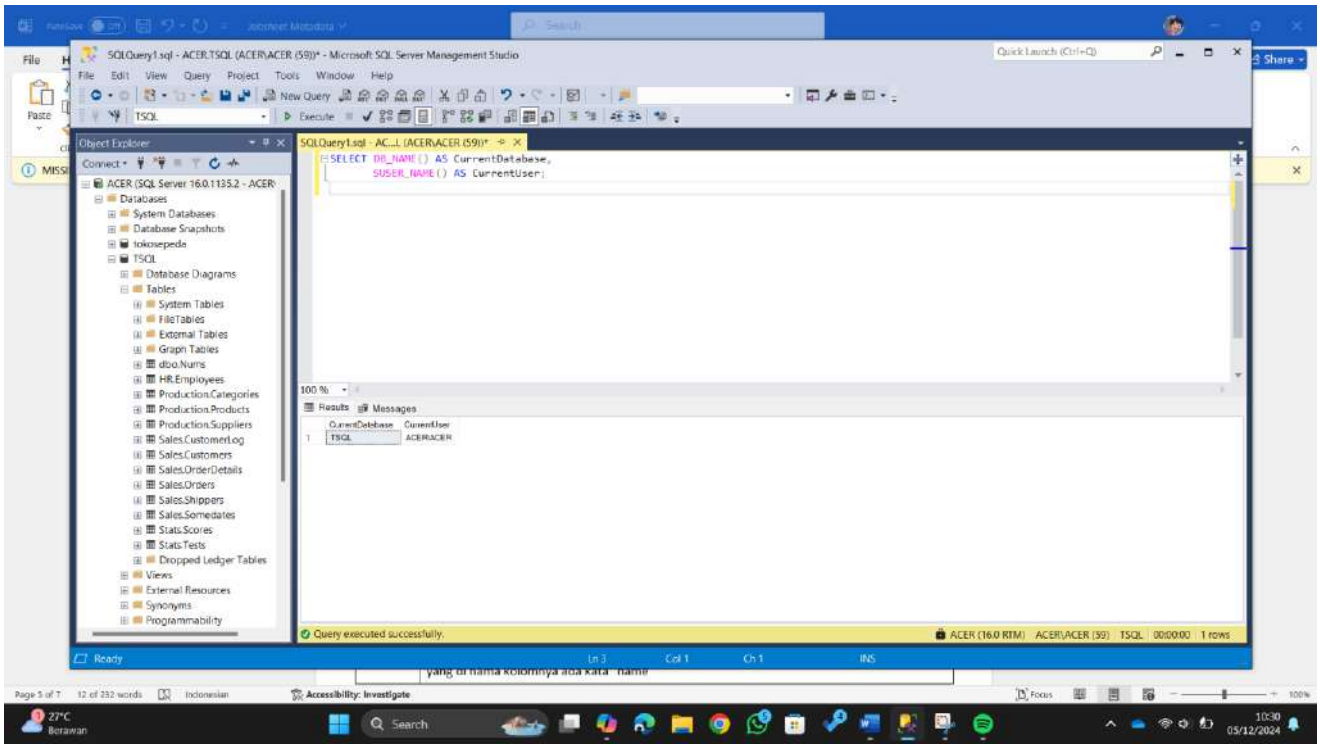


Praktikum – Bagian 2: Melakukan Kueri Terhadap System Functions

Langkah	Keterangan
1	[Soal-5] Buatlah SELECT query untuk menampilkan database yang dipakai, dan pengguna saat ini!

Results | Messages

	database_id	database_name	user_id	user_name
1	11	TSQL2012	1	dbo

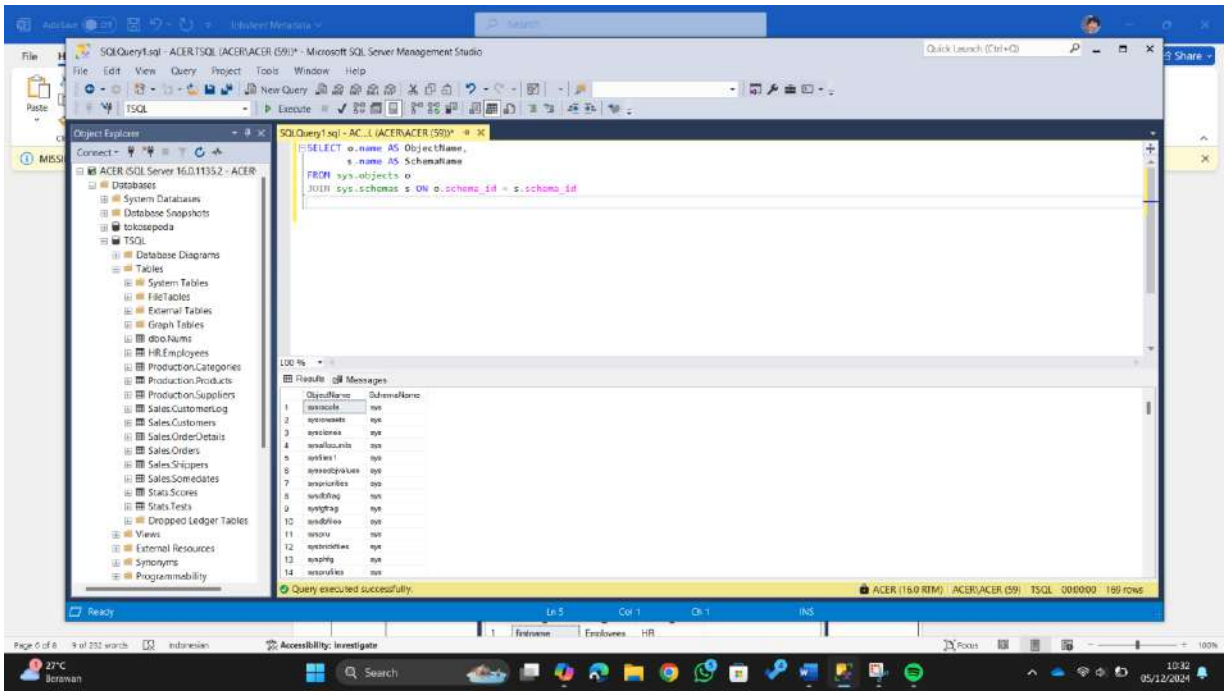


[Soal-6] Tulis SQL untuk menampilkan nama objek dan nama schema.

Results | Messages

	name	type_desc	object_id	schema_name
1	sysrscols	SYSTEM_TABLE	sysrscols	sys
2	sysrowsets	SYSTEM_TABLE	sysrowsets	sys
3	sysclones	SYSTEM_TABLE	sysclones	sys
4	sysallocunits	SYSTEM_TABLE	sysallocunits	sys
5	sysfiles1	SYSTEM_TABLE	sysfiles1	sys
6	sysseobjvalues	SYSTEM_TABLE	sysseobjvalues	sys
7	syspriorities	SYSTEM_TABLE	syspriorities	sys
8	sysdbfrag	SYSTEM_TABLE	sysdbfrag	sys
9	sysfgfrag	SYSTEM_TABLE	sysfgfrag	sys
10	sysdbfiles	SYSTEM_TABLE	sysdbfiles	sys

2

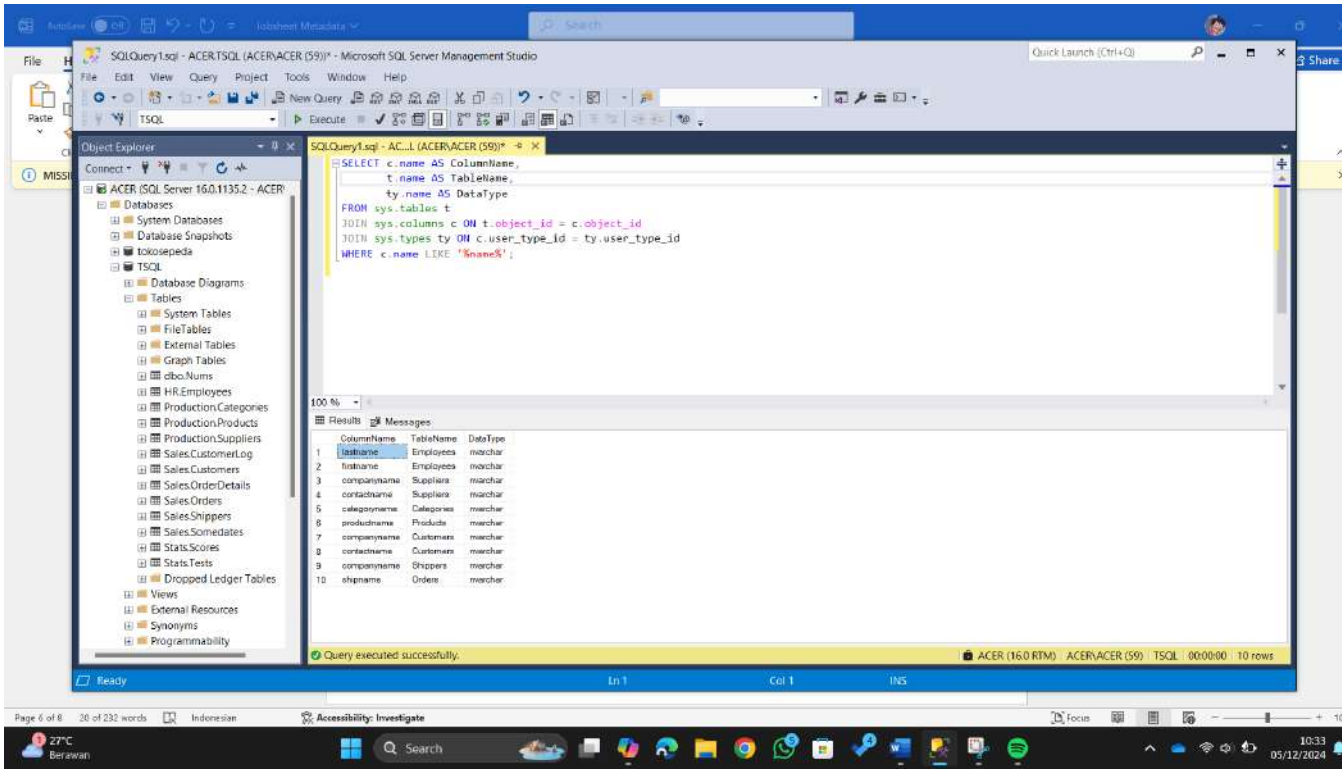


3

[Soal-7] Buatlah SQL untuk menampilkan data semua kolom dari tabel yang dibuat oleh user, yang di nama kolomnya ada kata "name"

Results | Messages

	column_name	table_name	schema_name
1	firstname	Employees	HR
2	lastname	Employees	HR
3	companyname	Suppliers	Production
4	contactname	Suppliers	Production
5	categoryname	Categories	Production
6	productname	Products	Production
7	companyname	Customers	Sales
8	contactname	Customers	Sales
9	companyname	Shippers	Sales
10	shipname	Orders	Sales



4

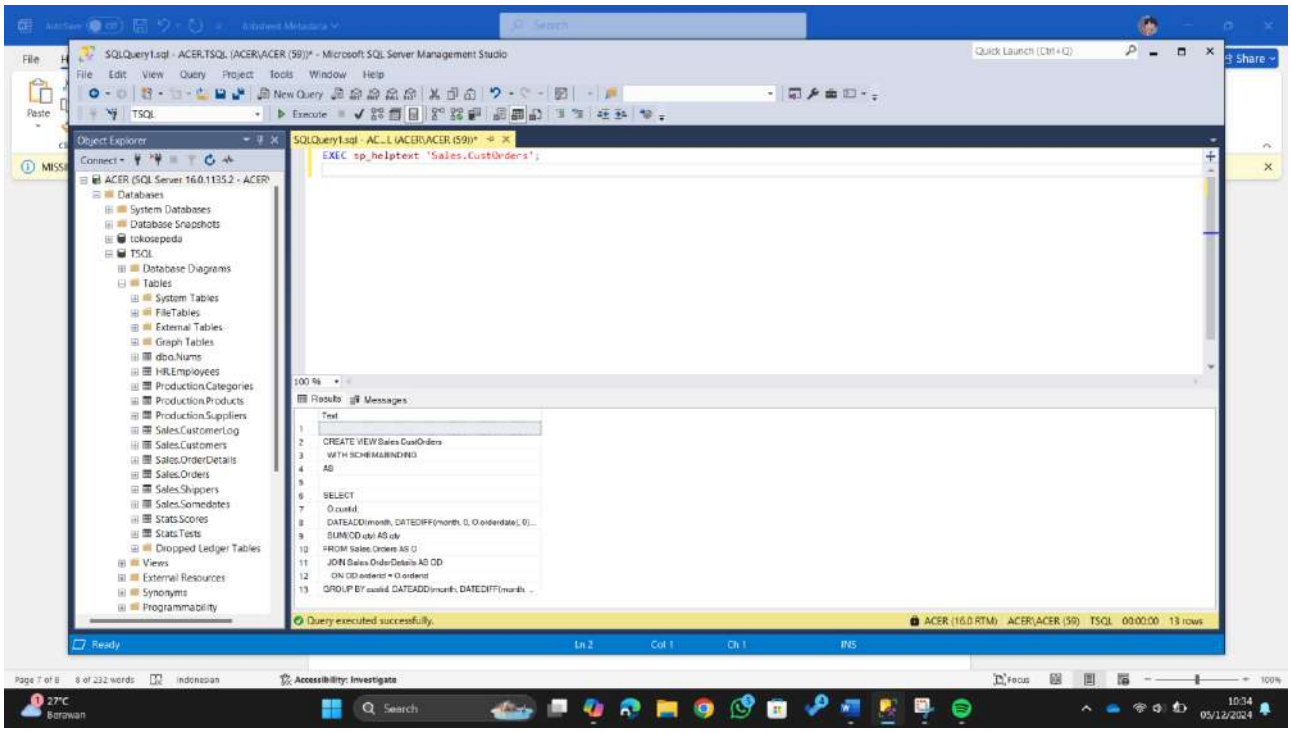
[Soal-8] Tampilkan 'definisi' dari sebuah view yang bernama 'Sales.CustOrders'!

Messages

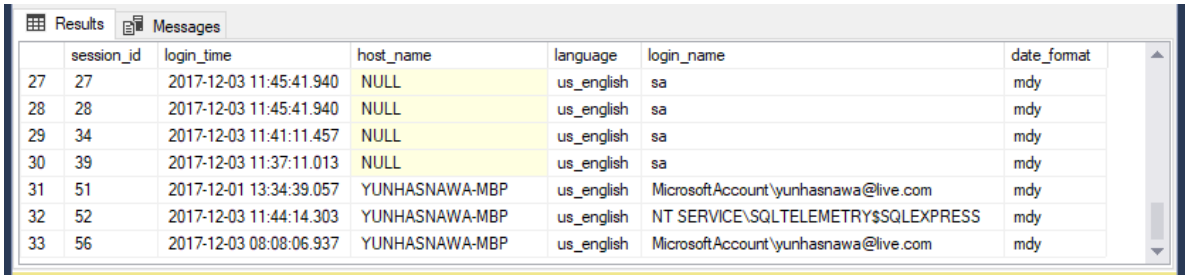
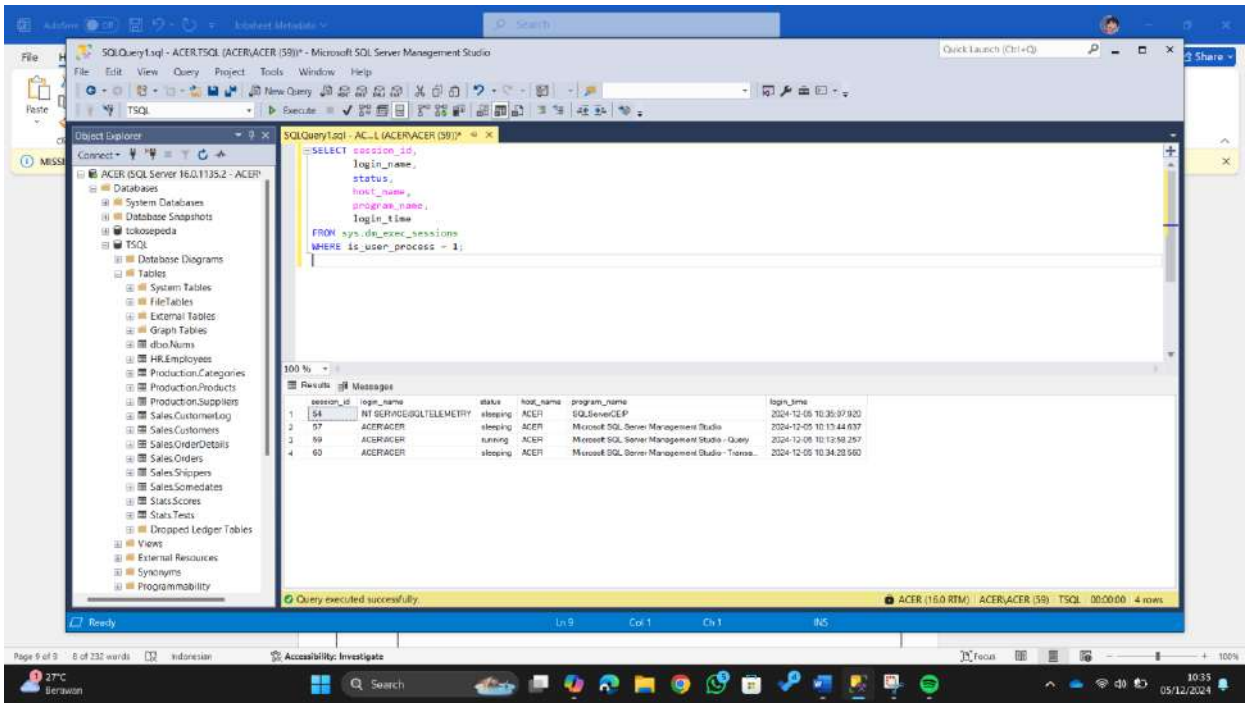
```
CREATE VIEW Sales.CustOrders
  WITH SCHEMABINDING
AS

SELECT
  O.custid,
  DATEADD(month, DATEDIFF(month, 0, O.orderdate), 0) AS ordermonth,
  SUM(OD.qty) AS qty
FROM Sales.Orders AS O
  JOIN Sales.OrderDetails AS OD
    ON OD.orderid = O.orderid
GROUP BY custid, DATEADD(month, DATEDIFF(month, 0, O.orderdate), 0);
```

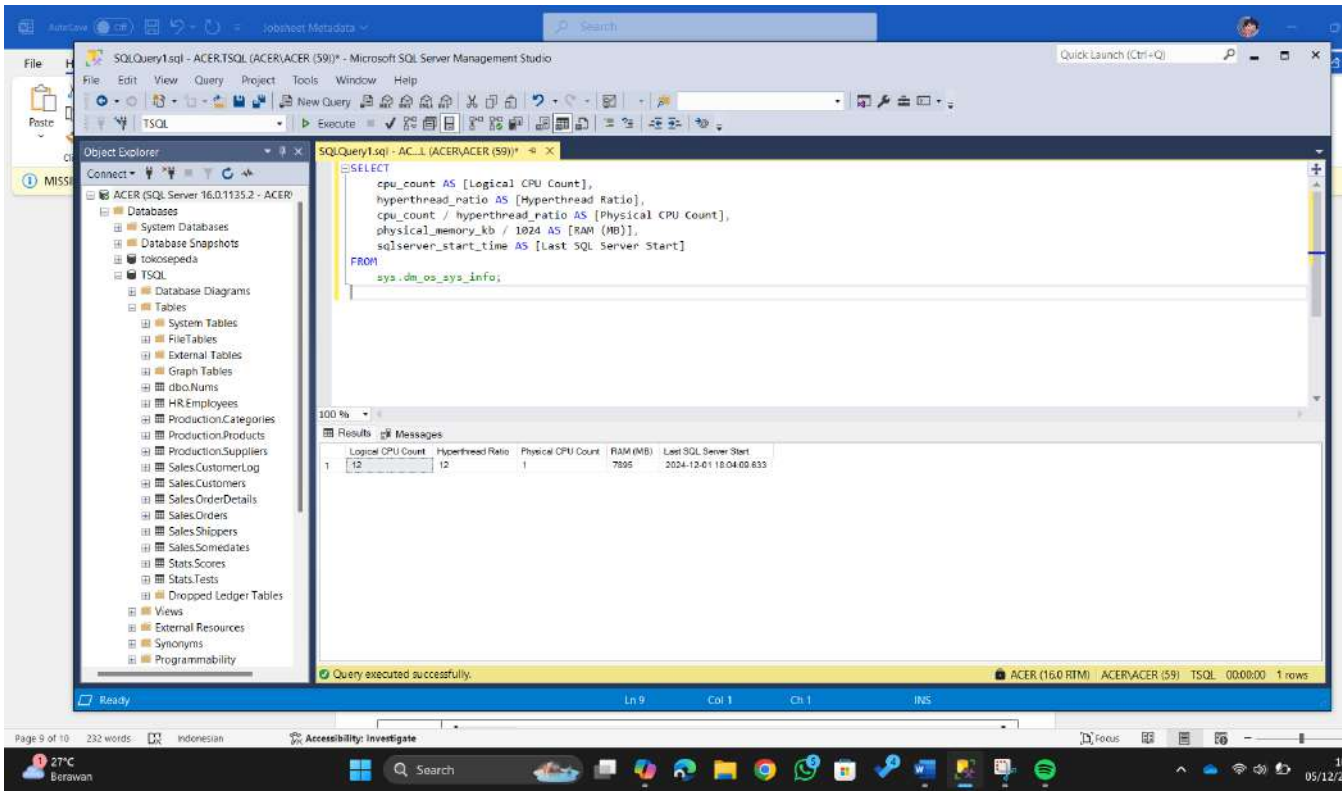
150 %


SQLQuery1.sql - ACER.TSQL (ACER\ACER (59))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
Execute
Object Explorer
Connect
ACER (SQL Server 16.0.1135.2 - ACER\
Databases
System Databases
Database Snapshots
tokosepeda
TSQL
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Nums
HR.Employees
Production.Categories
Production.Products
Production.Suppliers
Sales.CustomerLog
Sales.Customers
Sales.OrderDetails
Sales.Orders
Sales.Shippers
Sales.Somedates
Stats.Scores
Stats.Tests
Dropped Ledger Tables
Views
External Resources
Synonyms
Programmability
SQLQuery1.sql - AC...L (ACER\ACER (59))*
EXEC sp_helptext 'Sales.CustOrders';
Results
Messages
Text
CREATE VIEW Sales.CustOrders
WITH SCHEMABINDING
AS
SELECT
O.custid,
FROM Sales.Orders AS O
JOIN Sales.OrderDetails AS OD
ON OD.orderid = O.orderid
GROUP BY custid, DATEADD(month, DATEDIFF(month, ...
Query executed successfully.
ACER (16.0 RTM) ACER\ACER (59) TSQL 00:00:00 13 rows
Ready
Ln 2 Col 1 Ch 1 INS
Search
27°C
Berawan
10:34
05/12/2024

Praktikum – Bagian 3: System Dynamic Management View

Langkah	Keterangan
1	[Soal-9] Tampilkan semua session yang sedang aktif saat ini!  session_id | login_time | host_name | language | login_name | date_format 27 | 27 | 2017-12-03 11:45:41.940 | NULL | us_english | sa | mdy 28 | 28 | 2017-12-03 11:45:41.940 | NULL | us_english | sa | mdy 29 | 34 | 2017-12-03 11:41:11.457 | NULL | us_english | sa | mdy 30 | 39 | 2017-12-03 11:37:11.013 | NULL | us_english | sa | mdy 31 | 51 | 2017-12-01 13:34:39.057 | YUNHASNAWA-MBP | us_english | MicrosoftAccount\yunhasnawa@live.com | mdy 32 | 52 | 2017-12-03 11:44:14.303 | YUNHASNAWA-MBP | us_english | NT SERVICE\SQLTELEMETRY$SQLEXPRESS | mdy 33 | 56 | 2017-12-03 08:08:06.937 | YUNHASNAWA-MBP | us_english | MicrosoftAccount\yunhasnawa@live.com | mdy 

2	[Soal-10] Eksekusilah SQL berikut dan screenshot-lah hasilnya!
	`SELECT`
	`cpu_count AS [Logical CPU Count],`
	`hyperthread_ratio AS [Hyperthread Ratio],`
	`cpu_count / hyperthread_ratio AS [Physical CPU Count],`
	`physical_memory_kb / 1024 AS [RAM (MB)],`
	`sqlserver_start_time AS [Last SQL Server Start]`
	`FROM`
	`sys.dm_os_sys_info;`

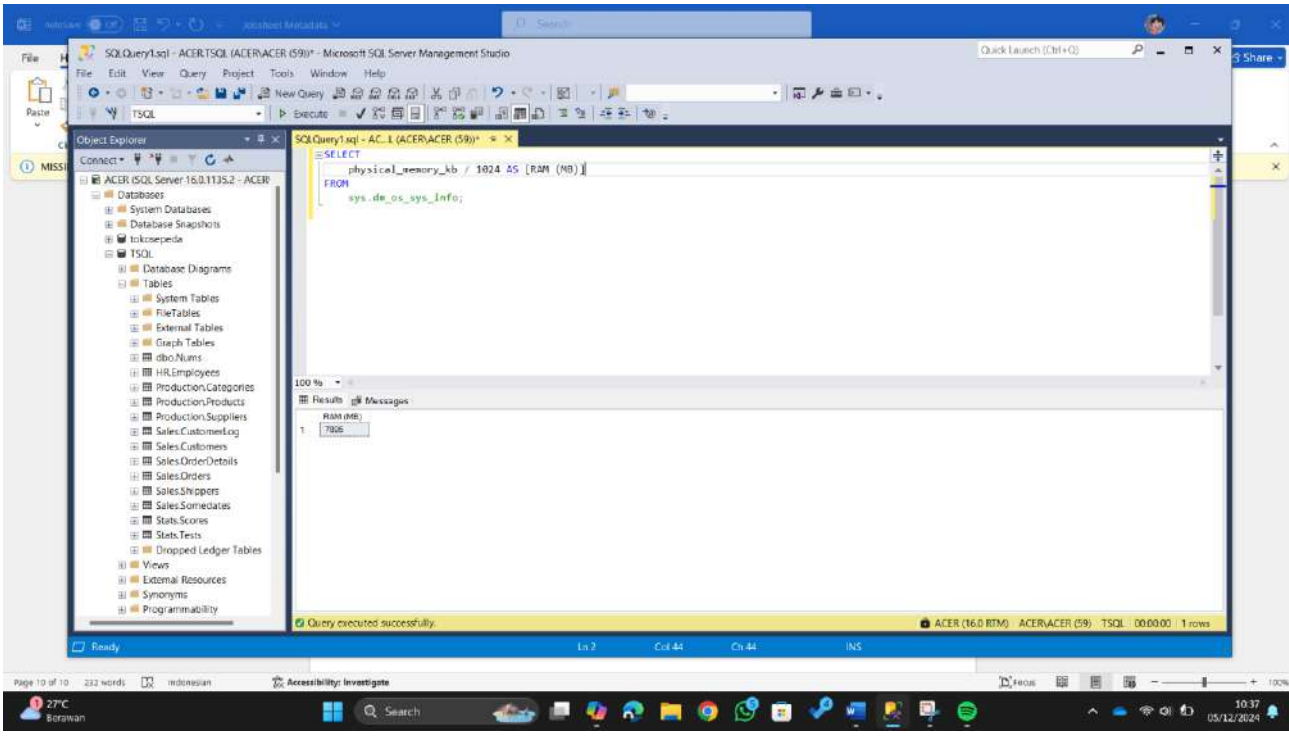


3

[Soal-11] Tulislah SQL untuk menampilkan info memory (RAM) dari PC Anda!

Results | Messages

	Total RAM (GB)	Available RAM (GB)	Total Page File (GB)	Available Page File (GB)	RAM Availability Status
1	15	11	18	13	Available physical memory is high



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