

**LAPORAN PRAKTIKUM
SISTEM MENEJEMEN BASIS DATA**

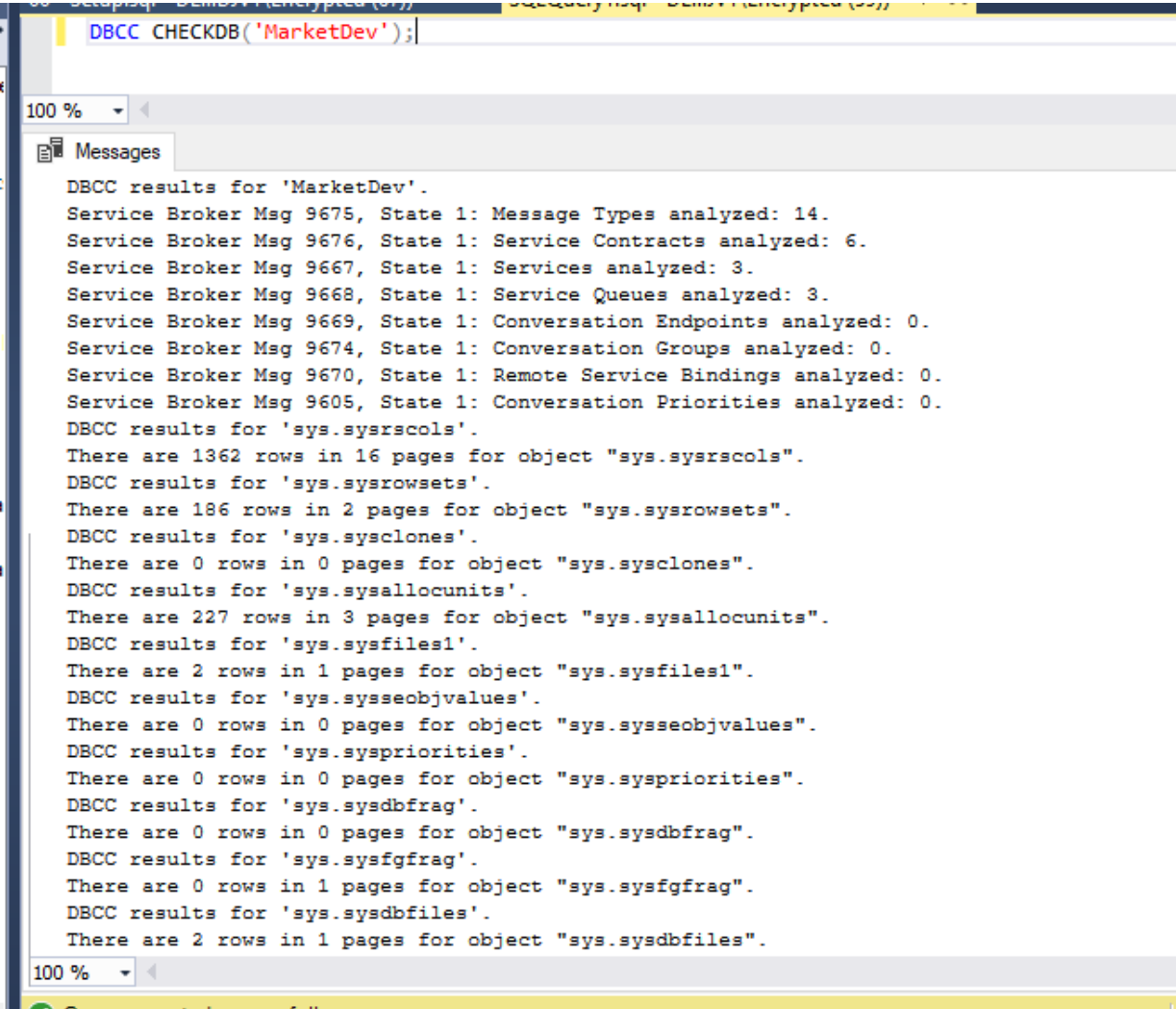
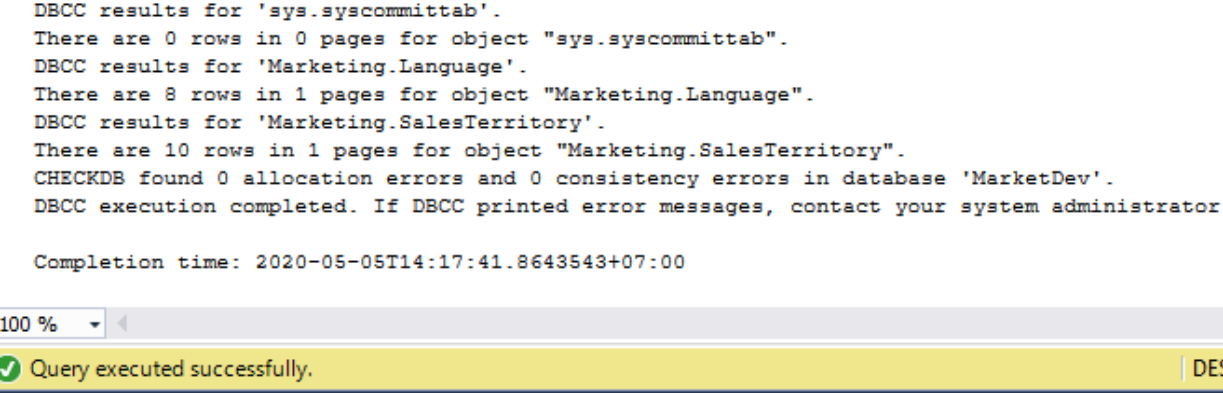
JOBSHEET-13: DATABASE MAINTENANCE

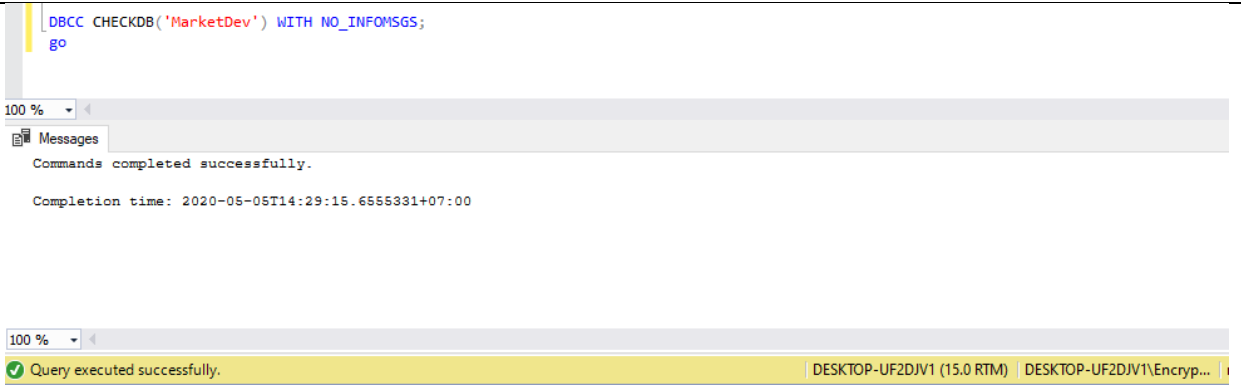
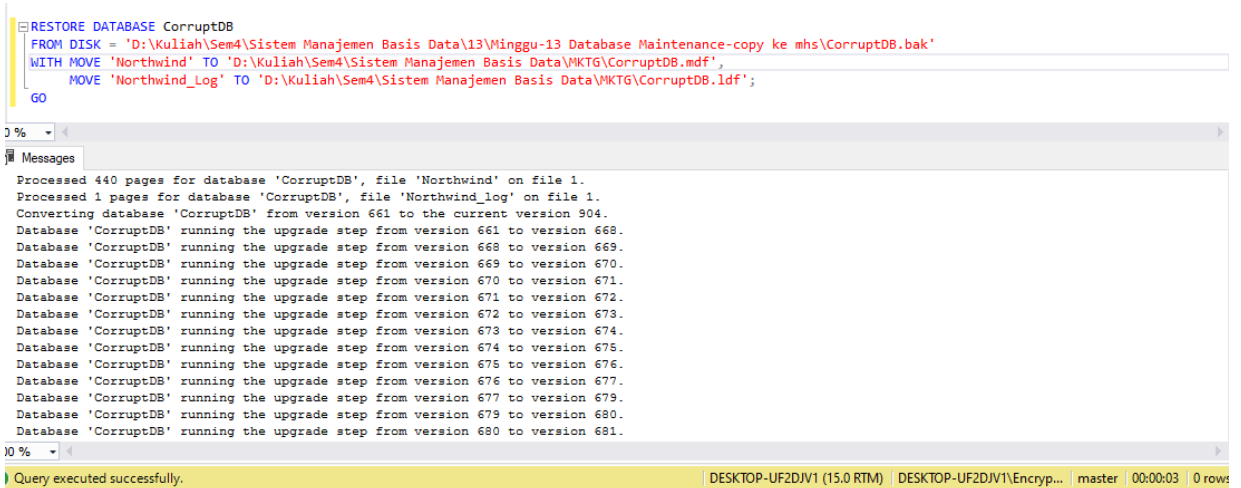
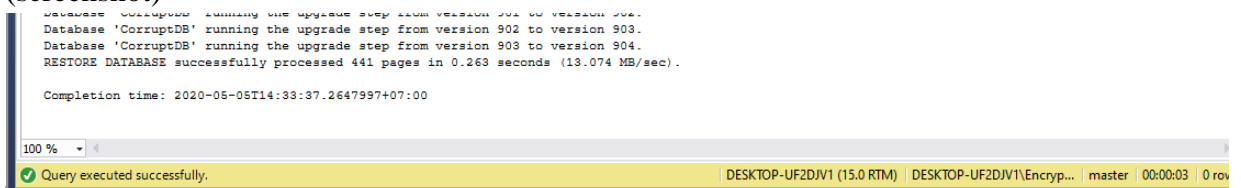
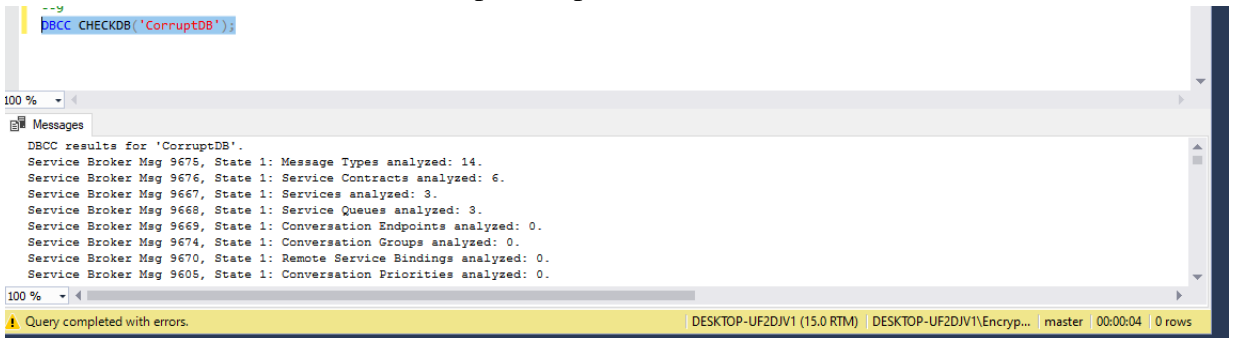
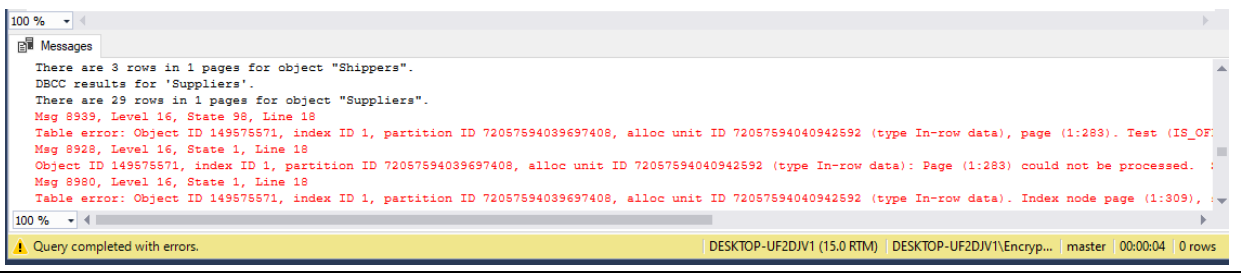


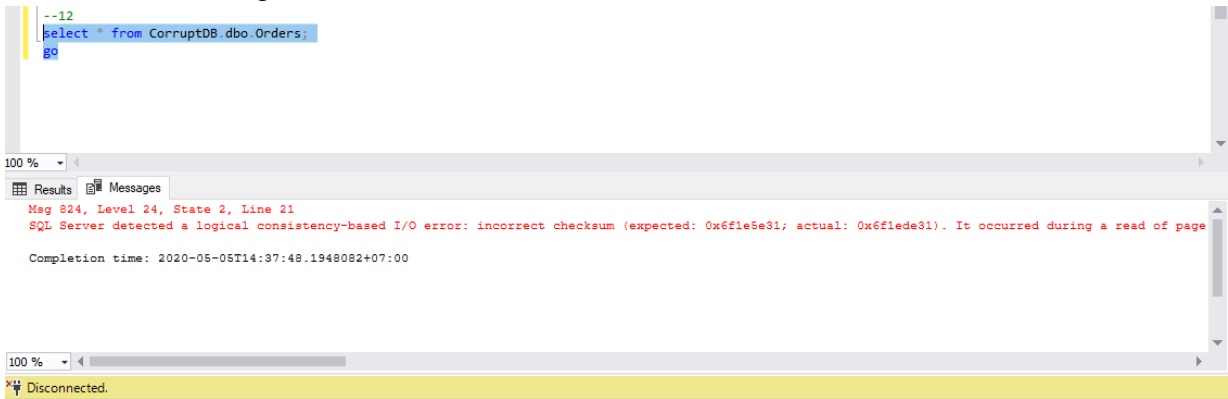
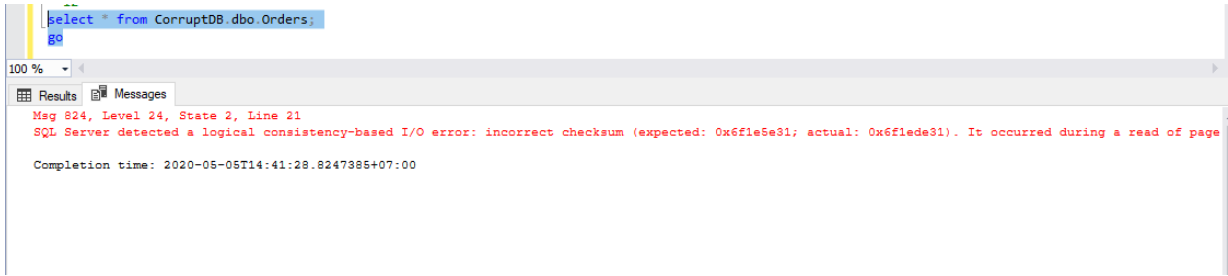
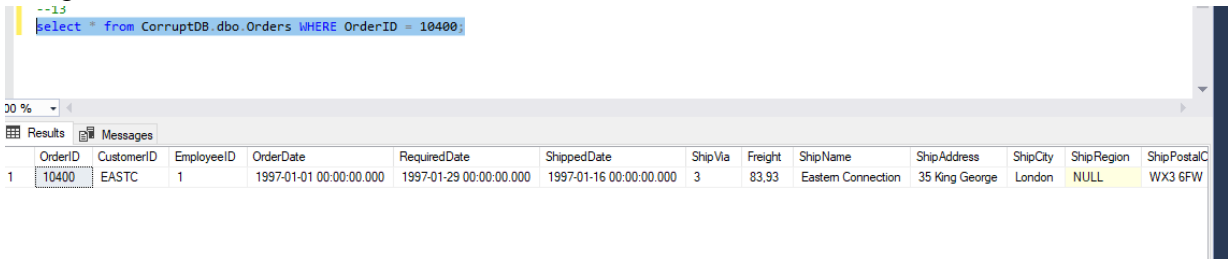
Oleh:

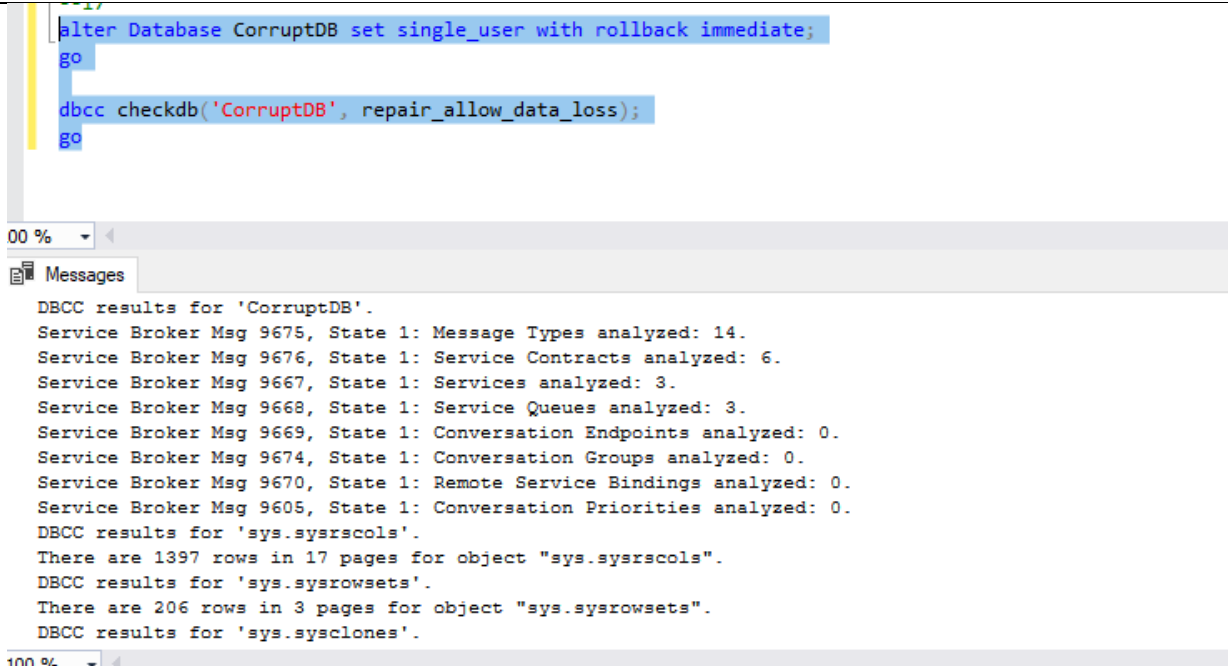
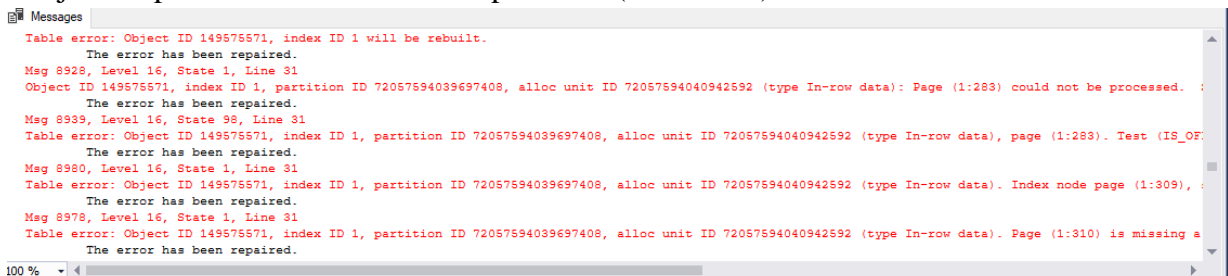
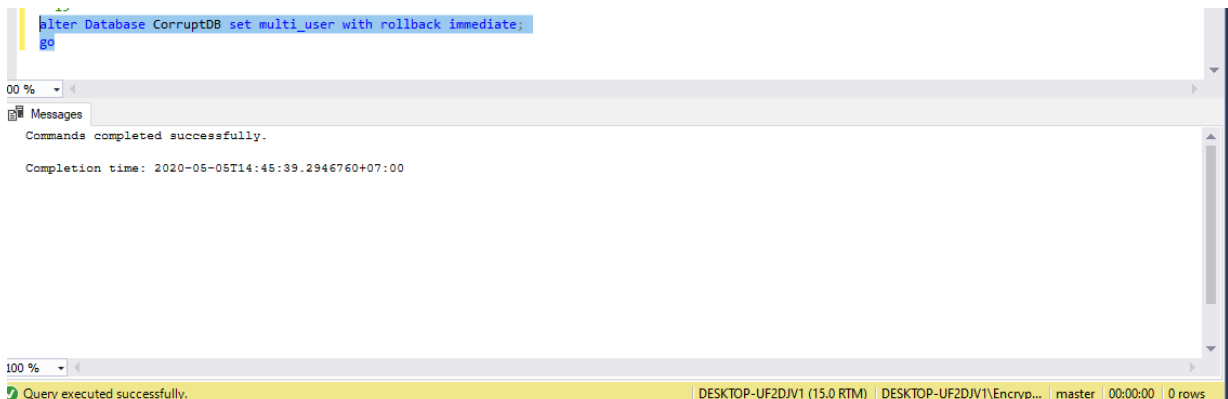
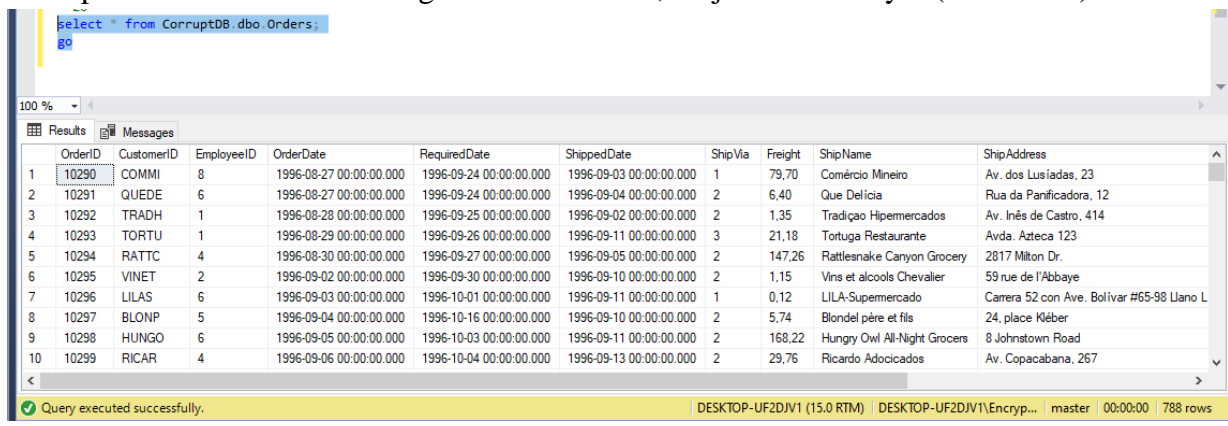
**NAMA : HAFIDH SAJID M
NIM : 1841720105
KELAS : TI-2D**

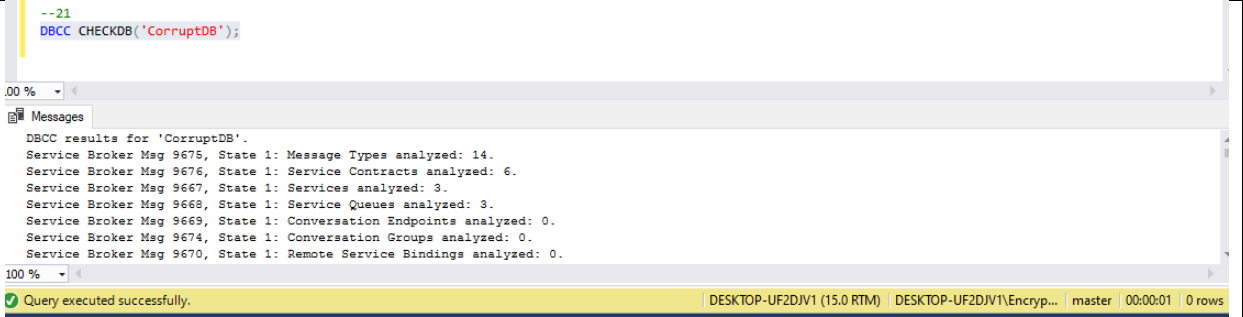
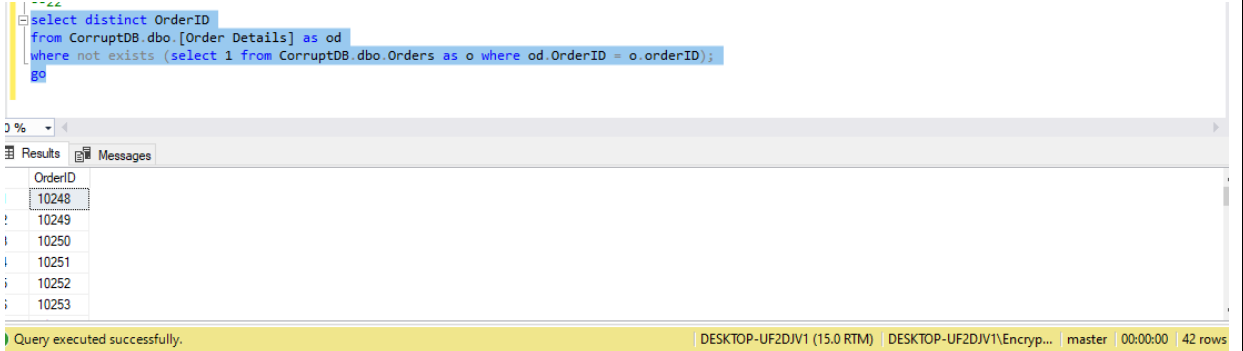
**PROGRAM STUDI TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2020**

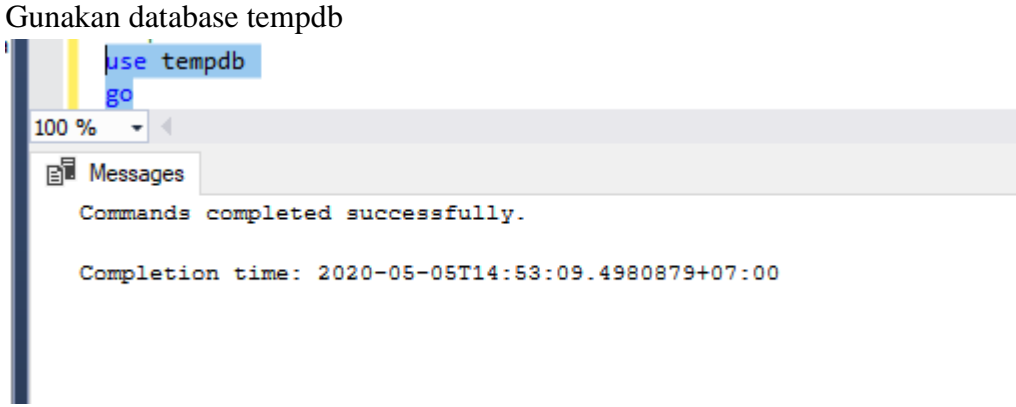
Praktikum 1. DMCC Check DB	
Langkah-langkah praktikum	
1.	Buka Microsoft SQL Server 2012, klik SQL Server Management Studio. Connect ke Server Window, type Proseware dan klik Connect. Pada File menu, klik Open, klik Project/Solution, buka D:\10775A_Labs\10775A_12_PRJ\10775A_12_PRJ.ssmssln dan Open.
2.	Pada View menu, klik Solution Explorer. Buka dan jalankan 00 – Setup.sql.
3.	<p>Jalankan DBCC CHECKDB dengan opsi Default</p> 
4.	<p>Catat output, dan arahkan ke pesan terakhir yang menunjukkan bahwa tidak ada error! (screenshot)</p> 
5.	Jalankan DBCC CHECKDB tanpa pesan informasi, hanya pesan kesalahan yang akan muncul dengan opsi ini.

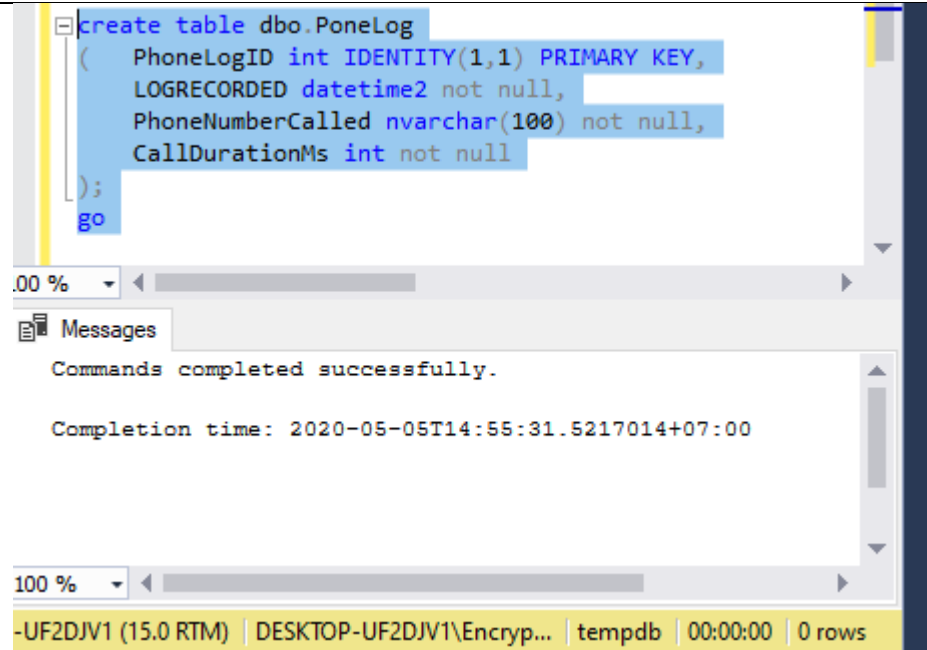
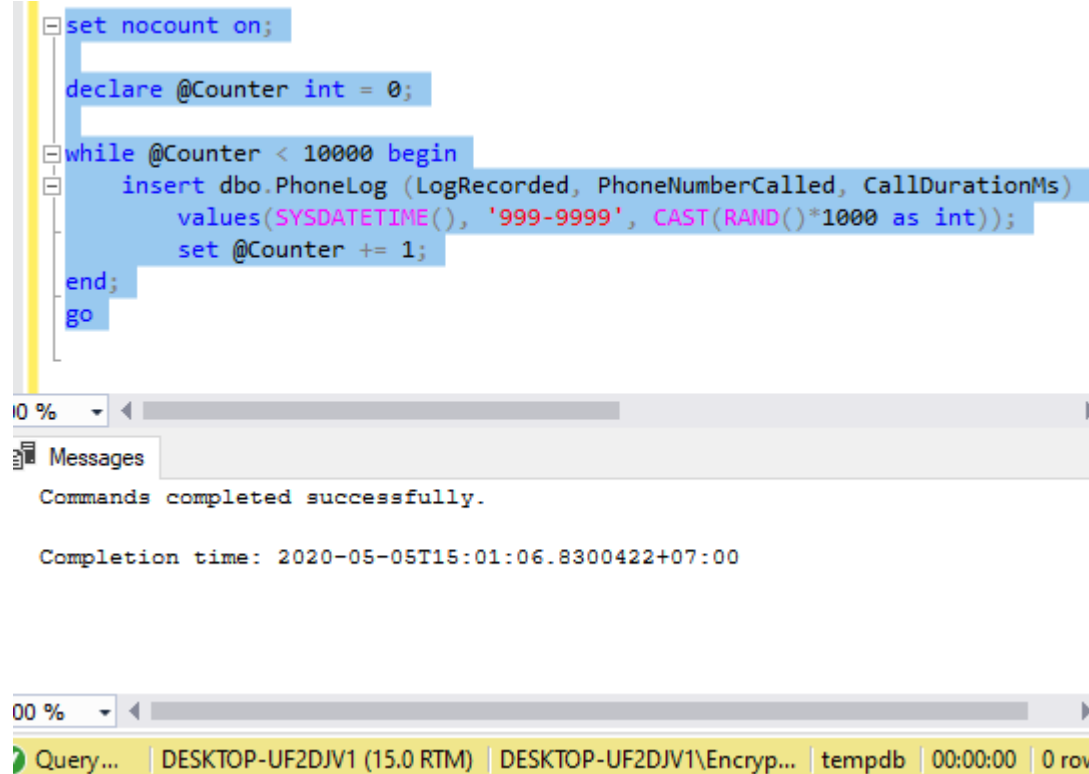
	
6.	<p>Catat perbedaan output dengan perintah sebelumnya. Bagaimana output query ini? Mengapa demikian?</p> <p>Jawab: dengan adanya WITH NO_INFOMSGS yaitu Menekan semua pesan informasi yang memiliki tingkat kerusakan dari 0 sampai 10</p>
7.	<p>Restore database yang rusak (corrupt). Perhatikan bahwa basis data ini di back up dalam keadaan rusak.</p> 
8.	<p>Catat output, dan arahkan ke pesan terakhir yang menunjukkan bahwa restore berhasil! (screenshot)</p> 
9.	<p>Jalankan DBCC CHECKDB terhadap CorruptDB.</p> 
10.	<p>Catat output, ada berapa jumlah error? Table apa yang error?</p> <p>Jawab:</p> 

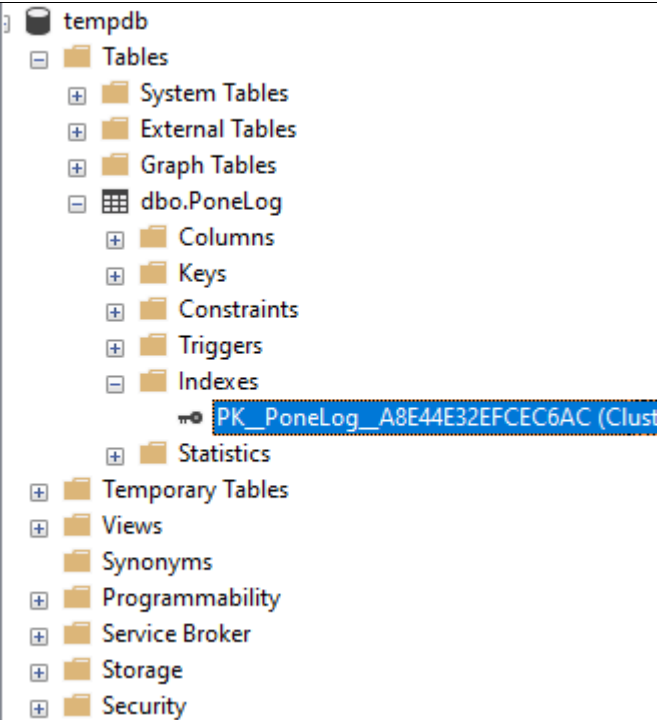
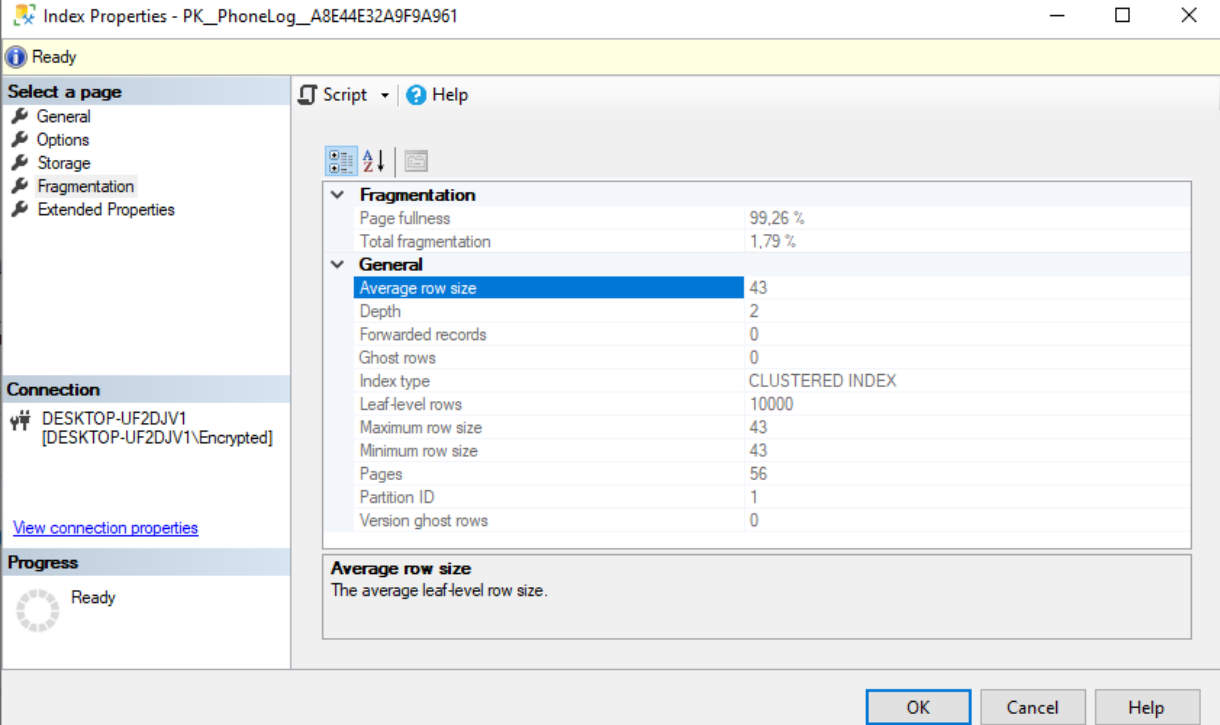
11.	Baris output terakhir memberi tahu anda tingkat perbaikan minimum yang diperlukan
12.	<p>Cobalah untuk mengakses tabel Order</p> 
13.	<p>Perhatikan bahwa terdapat error Msg 824. Ini adalah kesalahan umum yang berhubungan dengan masalah subsistem disk.</p> 
14.	<p>Perhatikan bahwa error mungkin hanya berlaku untuk page tertentu dalam tabel. Cobalah mengakses order tertentu</p> 
15.	<p>Perhatikan bahwa baris dapat di return, mengapa demikian?</p> <p>Jawab:</p> <p>Karena yang dituju dan yang bisa diakses hanya OrderID = 10400</p>
16.	<p>Solusi terbaik untuk permasalahan ini adalah restore dari back up yang dibuat sebelum kerusakan terjadi. Tetapi, satu-satunya back up yang dimiliki rusak atau corrupt sehingga kita tidak memiliki pilihan selain mencoba recover database. Ini adalah opsi darurat dan hanya boleh digunakan sebagai pilihan terakhir. Tidak ada jaminan konsistensi dalam database yang disediakan dan bias terdapat kehilangan data.</p>
17.	Atur basis data dalam mode SINGLE_USER dan lakukan repair.

	 <p>alter Database CorruptDB set single_user with rollback immediate; go dbcc checkdb('CorruptDB', repair_allow_data_loss); go</p> <p>00 %</p> <p>Messages</p> <p>DBCC results for 'CorruptDB'. Service Broker Msg 9675, State 1: Message Types analyzed: 14. Service Broker Msg 9676, State 1: Service Contracts analyzed: 6. Service Broker Msg 9667, State 1: Services analyzed: 3. Service Broker Msg 9668, State 1: Service Queues analyzed: 3. Service Broker Msg 9669, State 1: Conversation Endpoints analyzed: 0. Service Broker Msg 9674, State 1: Conversation Groups analyzed: 0. Service Broker Msg 9670, State 1: Remote Service Bindings analyzed: 0. Service Broker Msg 9605, State 1: Conversation Priorities analyzed: 0. DBCC results for 'sys.sysrscols'. There are 1397 rows in 17 pages for object "sys.sysrscols". DBCC results for 'sys.sysrowsets'. There are 206 rows in 3 pages for object "sys.sysrowsets". DBCC results for 'sys.sysclones'.</p> <p>100 %</p>																																																																																																																									
18.	<p>Tunjukkan pesan bahwa error telah diperbaiki! (screenshot)</p>  <p>Messages</p> <p>Table error: Object ID 149575571, index ID 1 will be rebuilt. The error has been repaired. Msg 8928, Level 16, State 1, Line 31 Object ID 149575571, index ID 1, partition ID 72057594039697408, alloc unit ID 72057594040942592 (type In-row data): Page (1:283) could not be processed. The error has been repaired. Msg 8939, Level 16, State 98, Line 31 Table error: Object ID 149575571, index ID 1, partition ID 72057594039697408, alloc unit ID 72057594040942592 (type In-row data), page (1:283). Test (IS_OF) The error has been repaired. Msg 8980, Level 16, State 1, Line 31 Table error: Object ID 149575571, index ID 1, partition ID 72057594039697408, alloc unit ID 72057594040942592 (type In-row data). Index node page (1:309), The error has been repaired. Msg 8978, Level 16, State 1, Line 31 Table error: Object ID 149575571, index ID 1, partition ID 72057594039697408, alloc unit ID 72057594040942592 (type In-row data). Page (1:310) is missing a The error has been repaired.</p> <p>100 %</p>																																																																																																																									
19.	<p>Lakukan rollback ke multi user mode</p>  <p>alter Database CorruptDB set multi_user with rollback immediate; go</p> <p>00 %</p> <p>Messages</p> <p>Commands completed successfully.</p> <p>Completion time: 2020-05-05T14:45:39.2946760+07:00</p> <p>100 %</p> <p>Query executed successfully. DESKTOP-UF2DJV1 (15.0 RTM) DESKTOP-UF2DJV1\Encryp... master 00:00:00 0 rows</p>																																																																																																																									
20.	<p>Cek apakah kita sudah bias mengakses tabel Order, tunjukkan hasilnya! (screenshot)</p>  <p>select * from CorruptDB.dbo.Orders; go</p> <p>100 %</p> <p>Results Messages</p> <table><tr><th></th><th>OrderID</th><th>CustomerID</th><th>EmployeeID</th><th>OrderDate</th><th>RequiredDate</th><th>ShippedDate</th><th>ShipVia</th><th>Freight</th><th>ShipName</th><th>ShipAddress</th></tr><tr><td>1</td><td>10290</td><td>COMMI</td><td>8</td><td>1996-08-27 00:00:00.000</td><td>1996-09-24 00:00:00.000</td><td>1996-09-03 00:00:00.000</td><td>1</td><td>79.70</td><td>Comércio Mineiro</td><td>Av. dos Lusíadas, 23</td></tr><tr><td>2</td><td>10291</td><td>QUEDE</td><td>6</td><td>1996-08-27 00:00:00.000</td><td>1996-09-24 00:00:00.000</td><td>1996-09-04 00:00:00.000</td><td>2</td><td>6.40</td><td>Que Delícia</td><td>Rua da Panificadora, 12</td></tr><tr><td>3</td><td>10292</td><td>TRADH</td><td>1</td><td>1996-08-28 00:00:00.000</td><td>1996-09-25 00:00:00.000</td><td>1996-09-02 00:00:00.000</td><td>2</td><td>1.35</td><td>Tradição Hipermercados</td><td>Av. Inês de Castro, 414</td></tr><tr><td>4</td><td>10293</td><td>TORTU</td><td>1</td><td>1996-08-29 00:00:00.000</td><td>1996-09-26 00:00:00.000</td><td>1996-09-11 00:00:00.000</td><td>3</td><td>21.18</td><td>Tortuga Restaurante</td><td>Avda. Azteca 123</td></tr><tr><td>5</td><td>10294</td><td>RATTC</td><td>4</td><td>1996-08-30 00:00:00.000</td><td>1996-09-27 00:00:00.000</td><td>1996-09-05 00:00:00.000</td><td>2</td><td>147.26</td><td>Rattlesnake Canyon Grocery</td><td>2817 Milton Dr.</td></tr><tr><td>6</td><td>10295</td><td>VINET</td><td>2</td><td>1996-09-02 00:00:00.000</td><td>1996-09-30 00:00:00.000</td><td>1996-09-10 00:00:00.000</td><td>2</td><td>1.15</td><td>Vins et alcools Chevalier</td><td>59 rue de l'Abbaye</td></tr><tr><td>7</td><td>10296</td><td>LILAS</td><td>6</td><td>1996-09-03 00:00:00.000</td><td>1996-10-01 00:00:00.000</td><td>1996-09-11 00:00:00.000</td><td>1</td><td>0.12</td><td>LILA-Supercorpo</td><td>Carrera 52 con Ave. Bolívar #65-98 Llano L</td></tr><tr><td>8</td><td>10297</td><td>BLONP</td><td>5</td><td>1996-09-04 00:00:00.000</td><td>1996-10-16 00:00:00.000</td><td>1996-09-10 00:00:00.000</td><td>2</td><td>5.74</td><td>Blondel père et fils</td><td>24, place Kléber</td></tr><tr><td>9</td><td>10298</td><td>HUNGO</td><td>6</td><td>1996-09-05 00:00:00.000</td><td>1996-10-03 00:00:00.000</td><td>1996-09-11 00:00:00.000</td><td>2</td><td>168.22</td><td>Hungry Owl All-Night Grocers</td><td>8 Johnstown Road</td></tr><tr><td>10</td><td>10299</td><td>RICAR</td><td>4</td><td>1996-09-06 00:00:00.000</td><td>1996-10-04 00:00:00.000</td><td>1996-09-13 00:00:00.000</td><td>2</td><td>29.76</td><td>Ricardo Adocicados</td><td>Av. Copacabana, 267</td></tr></table> <p>Query executed successfully. DESKTOP-UF2DJV1 (15.0 RTM) DESKTOP-UF2DJV1\Encryp... master 00:00:00 788 rows</p>		OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	1	10290	COMMI	8	1996-08-27 00:00:00.000	1996-09-24 00:00:00.000	1996-09-03 00:00:00.000	1	79.70	Comércio Mineiro	Av. dos Lusíadas, 23	2	10291	QUEDE	6	1996-08-27 00:00:00.000	1996-09-24 00:00:00.000	1996-09-04 00:00:00.000	2	6.40	Que Delícia	Rua da Panificadora, 12	3	10292	TRADH	1	1996-08-28 00:00:00.000	1996-09-25 00:00:00.000	1996-09-02 00:00:00.000	2	1.35	Tradição Hipermercados	Av. Inês de Castro, 414	4	10293	TORTU	1	1996-08-29 00:00:00.000	1996-09-26 00:00:00.000	1996-09-11 00:00:00.000	3	21.18	Tortuga Restaurante	Avda. Azteca 123	5	10294	RATTC	4	1996-08-30 00:00:00.000	1996-09-27 00:00:00.000	1996-09-05 00:00:00.000	2	147.26	Rattlesnake Canyon Grocery	2817 Milton Dr.	6	10295	VINET	2	1996-09-02 00:00:00.000	1996-09-30 00:00:00.000	1996-09-10 00:00:00.000	2	1.15	Vins et alcools Chevalier	59 rue de l'Abbaye	7	10296	LILAS	6	1996-09-03 00:00:00.000	1996-10-01 00:00:00.000	1996-09-11 00:00:00.000	1	0.12	LILA-Supercorpo	Carrera 52 con Ave. Bolívar #65-98 Llano L	8	10297	BLONP	5	1996-09-04 00:00:00.000	1996-10-16 00:00:00.000	1996-09-10 00:00:00.000	2	5.74	Blondel père et fils	24, place Kléber	9	10298	HUNGO	6	1996-09-05 00:00:00.000	1996-10-03 00:00:00.000	1996-09-11 00:00:00.000	2	168.22	Hungry Owl All-Night Grocers	8 Johnstown Road	10	10299	RICAR	4	1996-09-06 00:00:00.000	1996-10-04 00:00:00.000	1996-09-13 00:00:00.000	2	29.76	Ricardo Adocicados	Av. Copacabana, 267
	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress																																																																																																																
1	10290	COMMI	8	1996-08-27 00:00:00.000	1996-09-24 00:00:00.000	1996-09-03 00:00:00.000	1	79.70	Comércio Mineiro	Av. dos Lusíadas, 23																																																																																																																
2	10291	QUEDE	6	1996-08-27 00:00:00.000	1996-09-24 00:00:00.000	1996-09-04 00:00:00.000	2	6.40	Que Delícia	Rua da Panificadora, 12																																																																																																																
3	10292	TRADH	1	1996-08-28 00:00:00.000	1996-09-25 00:00:00.000	1996-09-02 00:00:00.000	2	1.35	Tradição Hipermercados	Av. Inês de Castro, 414																																																																																																																
4	10293	TORTU	1	1996-08-29 00:00:00.000	1996-09-26 00:00:00.000	1996-09-11 00:00:00.000	3	21.18	Tortuga Restaurante	Avda. Azteca 123																																																																																																																
5	10294	RATTC	4	1996-08-30 00:00:00.000	1996-09-27 00:00:00.000	1996-09-05 00:00:00.000	2	147.26	Rattlesnake Canyon Grocery	2817 Milton Dr.																																																																																																																
6	10295	VINET	2	1996-09-02 00:00:00.000	1996-09-30 00:00:00.000	1996-09-10 00:00:00.000	2	1.15	Vins et alcools Chevalier	59 rue de l'Abbaye																																																																																																																
7	10296	LILAS	6	1996-09-03 00:00:00.000	1996-10-01 00:00:00.000	1996-09-11 00:00:00.000	1	0.12	LILA-Supercorpo	Carrera 52 con Ave. Bolívar #65-98 Llano L																																																																																																																
8	10297	BLONP	5	1996-09-04 00:00:00.000	1996-10-16 00:00:00.000	1996-09-10 00:00:00.000	2	5.74	Blondel père et fils	24, place Kléber																																																																																																																
9	10298	HUNGO	6	1996-09-05 00:00:00.000	1996-10-03 00:00:00.000	1996-09-11 00:00:00.000	2	168.22	Hungry Owl All-Night Grocers	8 Johnstown Road																																																																																																																
10	10299	RICAR	4	1996-09-06 00:00:00.000	1996-10-04 00:00:00.000	1996-09-13 00:00:00.000	2	29.76	Ricardo Adocicados	Av. Copacabana, 267																																																																																																																
21.	<p>Jalankan DBCC CHECKDB terhadap CorruptDB lagi, apakah terdapat error? (screenshot)</p> <p>Jawab:</p>																																																																																																																									

	
22.	<p>Apakah kami kehilangan data? Perhatikan bahwa ada foreign key antara tabel Orders dan tabel [Order Details] berdasarkan PesananID.</p> <p>Hal ini berarti bahwa suatu Order harus ada untuk setiap Order Details. Lakukan query untuk melihat order detail yang tidak memiliki Order ID yang sesuai.</p> 
23.	<p>Ada berapa banyak data yang hilang? (screenshot)</p> <p>Jawab: 746 data</p>

Praktikum 2. Pemeliharaan Indeks	
Langkah-langkah praktikum	
1.	
2.	Buat tabel phoneLog dengan primary key seperti berikut

	 <pre>create table dbo.PoneLog (PhoneLogID int IDENTITY(1,1) PRIMARY KEY, LOGRECORDED datetime2 not null, PhoneNumberCalled nvarchar(100) not null, CallDurationMs int not null); go</pre> <p>Messages</p> <p>Commands completed successfully.</p> <p>Completion time: 2020-05-05T14:55:31.5217014+07:00</p> <p>100 %</p> <p>-UF2DJV1 (15.0 RTM) DESKTOP-UF2DJV1\Encryp... tempdb 00:00:00 0 rows</p>
3.	<p>Masukkan beberapa data ke tabel tersebut</p>  <pre>set nocount on; declare @Counter int = 0; while @Counter < 10000 begin insert dbo.PhoneLog (LogRecorded, PhoneNumberCalled, CallDurationMs) values(SYSDATETIME(), '999-9999', CAST(RAND()*1000 as int)); set @Counter += 1; end; go</pre> <p>Messages</p> <p>Commands completed successfully.</p> <p>Completion time: 2020-05-05T15:01:06.8300422+07:00</p> <p>100 %</p> <p>Query... DESKTOP-UF2DJV1 (15.0 RTM) DESKTOP-UF2DJV1\Encryp... tempdb 00:00:00 0 rows</p>
4.	<p>Periksa fragmentasi dengan mengecek properties pada Indeks yg terdapat pada database PhoneLog</p>

	
5.	<p>Berapa persen fragmentasi dan page yang digunakan pada tabel tersebut? (screenshot)</p> <p>Jawab:</p> 
6.	Lakukan modifikasi data pada table PhoneLog

Object Explorer

Connect

UF2DJV1 (SQL Server 15.0)

ases

stem Databases

master

model

msdb

tempdb

Tables

System Tables

External Tables

Graph Tables

dbo.PhoneLog

Columns

Keys

Constraints

Triggers

Indexes

Statistics

Temporary Tables

Views

Synonyms

Programmability

Service Broker

Storage

Security

Database Snapshots

lminDB

rrruptDB

issmbd

DESKTOP-UF2DJV1....db - dbo.PhoneLog

	PhoneLogID	LogRecorded	PhoneNumber...	CallDurationMs
	1	2020-05-05 15:0...	999-9999	749
	2	2020-05-05 15:0...	999-999911	357
	3	2020-05-05 15:0...	999-999911	49
	4	2020-05-05 15:0...	999-9999	550
	5	2020-05-05 15:0...	999-9999	549
	6	2020-05-05 15:0...	999-9999	684
	7	2020-05-05 15:0...	999-9999	810
	8	2020-05-05 15:0...	999-9999	275
	9	2020-05-05 15:0...	999-9999	489
	10	2020-05-05 15:0...	999-9999	864
	11	2020-05-05 15:0...	999-9999	320
	12	2020-05-05 15:0...	999-9999	376
	13	2020-05-05 15:0...	999-9999	906
	14	2020-05-05 15:0...	999-9999	521
	15	2020-05-05 15:0...	999-9999	49
	16	2020-05-05 15:0...	999-9999	130
	17	2020-05-05 15:0...	999-9999	134
	18	2020-05-05 15:0...	999-9999	774
	19	2020-05-05 15:0...	999-9999	607
	20	2020-05-05 15:0...	999-9999	299
	21	2020-05-05 15:0...	999-9999	739
	22	2020-05-05 15:0...	999-9999	766
	23	2020-05-05 15:0...	999-9999	462
	24	2020-05-05 15:0...	999-9999	142

of 200

Cell is Modified.

7.

Periksa tingkat fragmentasi melalui sys.dm_db_index_physical_stats.

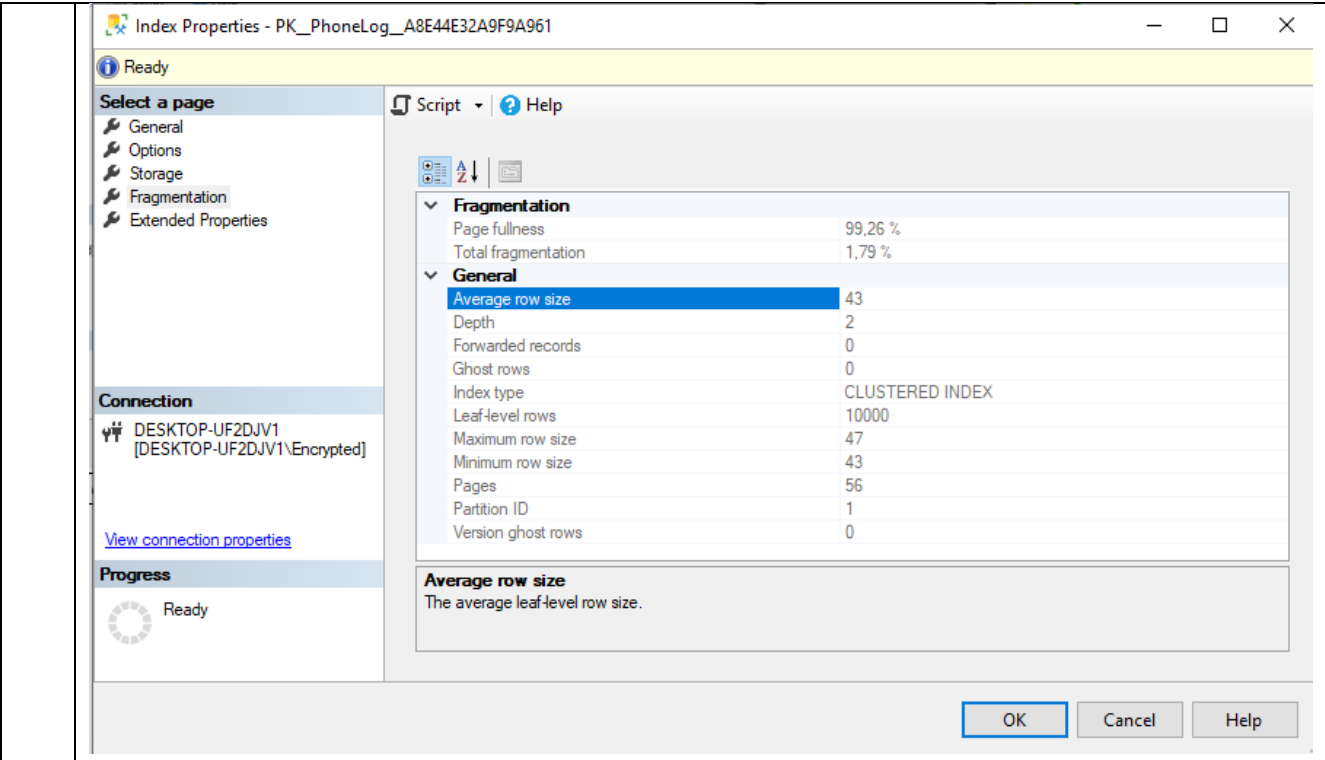
```
--/
select * from sys.dm_db_index_physical_stats(
    DB_ID(), OBJECT_ID('dbo.PhoneLog'), NULL, NULL, 'DETAILED'
);
```

Results	Messages											
database_id	object_id	index_id	partition_number	index_type_desc	alloc_unit_type_desc	index_depth	index_level	avg_fragmentation_in_percent	fragment_count	avg_fragment_size_in_pages	page_cox	
1	2	693577509	1	1	CLUSTERED INDEX	IN_ROW_DATA	2	0	1,78571428571429	9	6,22222222222222	56
2	2	693577509	1	1	CLUSTERED INDEX	IN_ROW_DATA	2	1	0	1	1	1

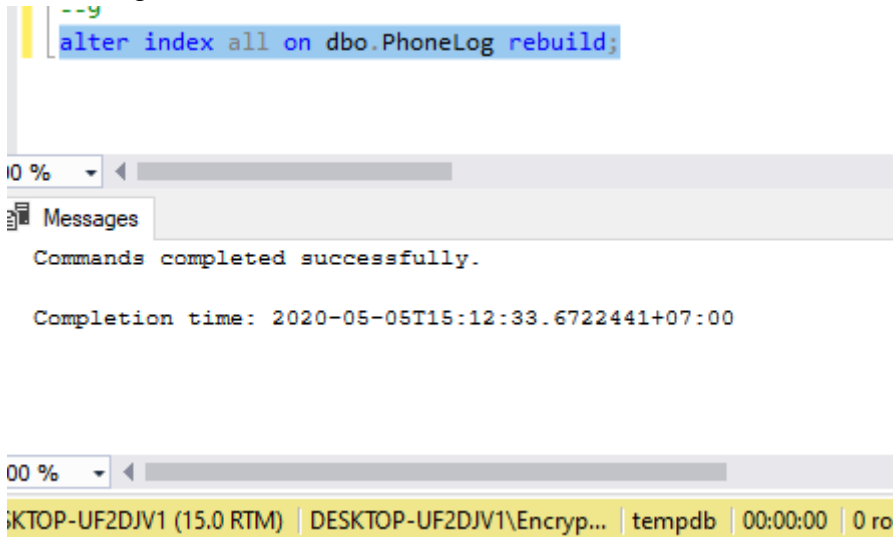
8.

Perhatikan avg_fragmentation_in_percent dan avg_page_space_used_in_percent lagi, berapa angkanya? (screenshot)

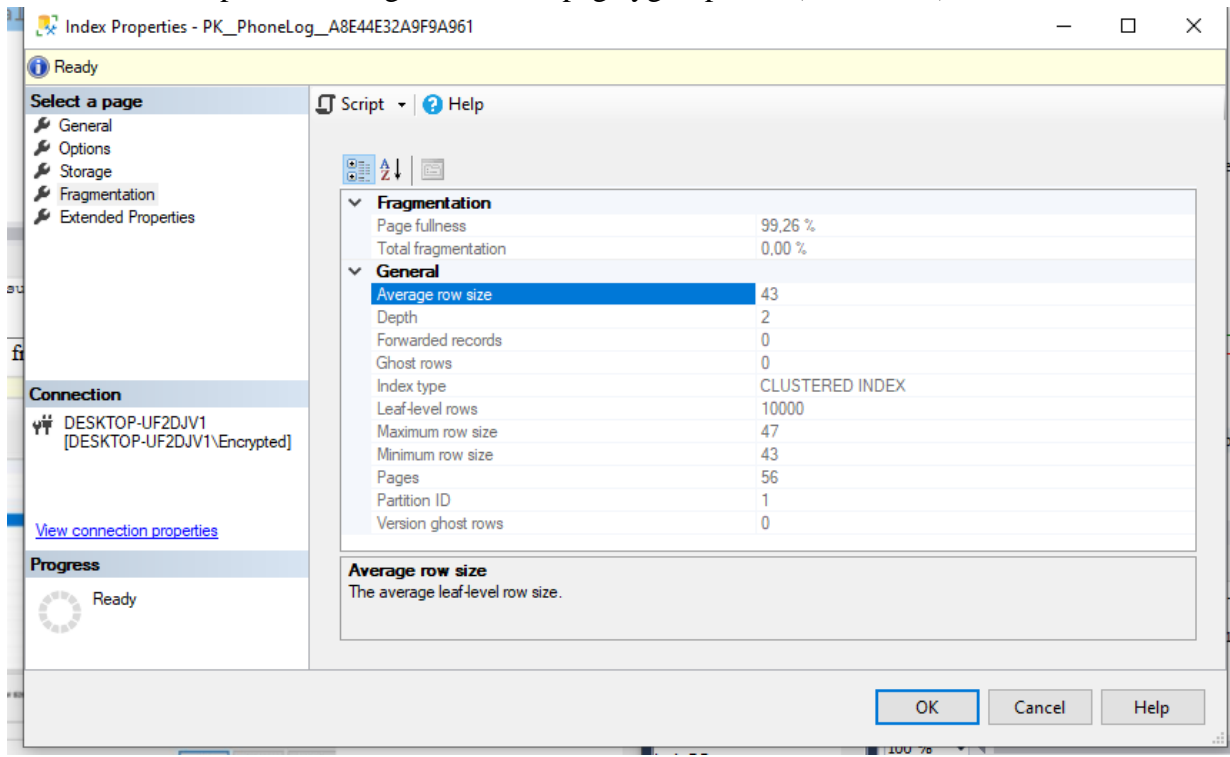
Jawab:

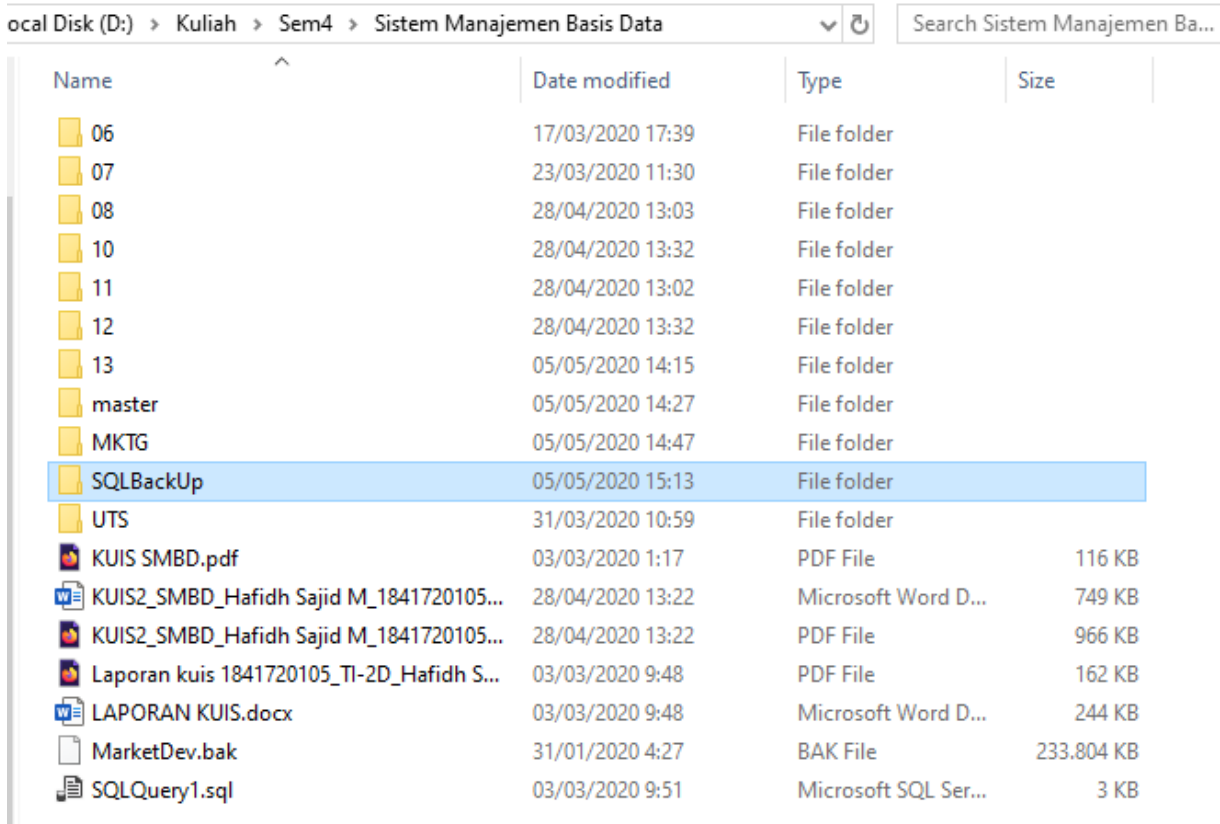
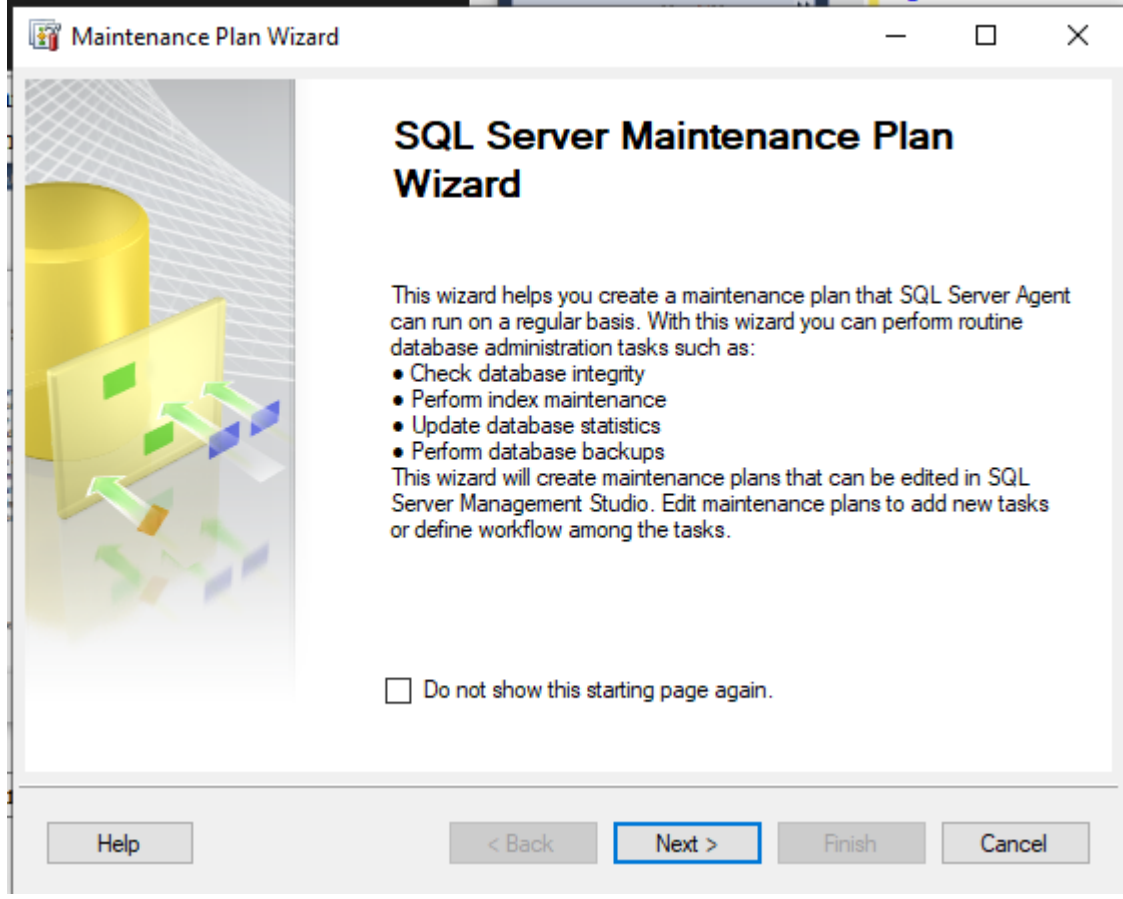


9. Rebuild tabel PhoneLog



10. Periksa kembali prosentse fragmentasi dan page yg terpakai! (screenshot)



Praktikum 3. Otomasi Pemeliharaan Database																																																																													
Langkah-langkah praktikum																																																																													
1.	<p>Buat backup folder menggunakan windows Explorer E:\SQLBackUp</p>  <p>Local Disk (D:) > Kuliah > Sem4 > Sistem Manajemen Basis Data</p> <table><thead><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr></thead><tbody><tr><td>06</td><td>17/03/2020 17:39</td><td>File folder</td><td></td></tr><tr><td>07</td><td>23/03/2020 11:30</td><td>File folder</td><td></td></tr><tr><td>08</td><td>28/04/2020 13:03</td><td>File folder</td><td></td></tr><tr><td>10</td><td>28/04/2020 13:32</td><td>File folder</td><td></td></tr><tr><td>11</td><td>28/04/2020 13:02</td><td>File folder</td><td></td></tr><tr><td>12</td><td>28/04/2020 13:32</td><td>File folder</td><td></td></tr><tr><td>13</td><td>05/05/2020 14:15</td><td>File folder</td><td></td></tr><tr><td>master</td><td>05/05/2020 14:27</td><td>File folder</td><td></td></tr><tr><td>MKTG</td><td>05/05/2020 14:47</td><td>File folder</td><td></td></tr><tr><td>SQLBackUp</td><td>05/05/2020 15:13</td><td>File folder</td><td></td></tr><tr><td>UTS</td><td>31/03/2020 10:59</td><td>File folder</td><td></td></tr><tr><td>KUIS SMBD.pdf</td><td>03/03/2020 1:17</td><td>PDF File</td><td>116 KB</td></tr><tr><td>KUIS2_SMBD_Hafidh Sajid M_1841720105...</td><td>28/04/2020 13:22</td><td>Microsoft Word D...</td><td>749 KB</td></tr><tr><td>KUIS2_SMBD_Hafidh Sajid M_1841720105...</td><td>28/04/2020 13:22</td><td>PDF File</td><td>966 KB</td></tr><tr><td>Laporan kuis 1841720105_TI-2D_Hafidh S...</td><td>03/03/2020 9:48</td><td>PDF File</td><td>162 KB</td></tr><tr><td>LAPORAN KUIS.docx</td><td>03/03/2020 9:48</td><td>Microsoft Word D...</td><td>244 KB</td></tr><tr><td>MarketDev.bak</td><td>31/01/2020 4:27</td><td>BAK File</td><td>233.804 KB</td></tr><tr><td>SQLQuery1.sql</td><td>03/03/2020 9:51</td><td>Microsoft SQL Ser...</td><td>3 KB</td></tr></tbody></table>	Name	Date modified	Type	Size	06	17/03/2020 17:39	File folder		07	23/03/2020 11:30	File folder		08	28/04/2020 13:03	File folder		10	28/04/2020 13:32	File folder		11	28/04/2020 13:02	File folder		12	28/04/2020 13:32	File folder		13	05/05/2020 14:15	File folder		master	05/05/2020 14:27	File folder		MKTG	05/05/2020 14:47	File folder		SQLBackUp	05/05/2020 15:13	File folder		UTS	31/03/2020 10:59	File folder		KUIS SMBD.pdf	03/03/2020 1:17	PDF File	116 KB	KUIS2_SMBD_Hafidh Sajid M_1841720105...	28/04/2020 13:22	Microsoft Word D...	749 KB	KUIS2_SMBD_Hafidh Sajid M_1841720105...	28/04/2020 13:22	PDF File	966 KB	Laporan kuis 1841720105_TI-2D_Hafidh S...	03/03/2020 9:48	PDF File	162 KB	LAPORAN KUIS.docx	03/03/2020 9:48	Microsoft Word D...	244 KB	MarketDev.bak	31/01/2020 4:27	BAK File	233.804 KB	SQLQuery1.sql	03/03/2020 9:51	Microsoft SQL Ser...	3 KB
Name	Date modified	Type	Size																																																																										
06	17/03/2020 17:39	File folder																																																																											
07	23/03/2020 11:30	File folder																																																																											
08	28/04/2020 13:03	File folder																																																																											
10	28/04/2020 13:32	File folder																																																																											
11	28/04/2020 13:02	File folder																																																																											
12	28/04/2020 13:32	File folder																																																																											
13	05/05/2020 14:15	File folder																																																																											
master	05/05/2020 14:27	File folder																																																																											
MKTG	05/05/2020 14:47	File folder																																																																											
SQLBackUp	05/05/2020 15:13	File folder																																																																											
UTS	31/03/2020 10:59	File folder																																																																											
KUIS SMBD.pdf	03/03/2020 1:17	PDF File	116 KB																																																																										
KUIS2_SMBD_Hafidh Sajid M_1841720105...	28/04/2020 13:22	Microsoft Word D...	749 KB																																																																										
KUIS2_SMBD_Hafidh Sajid M_1841720105...	28/04/2020 13:22	PDF File	966 KB																																																																										
Laporan kuis 1841720105_TI-2D_Hafidh S...	03/03/2020 9:48	PDF File	162 KB																																																																										
LAPORAN KUIS.docx	03/03/2020 9:48	Microsoft Word D...	244 KB																																																																										
MarketDev.bak	31/01/2020 4:27	BAK File	233.804 KB																																																																										
SQLQuery1.sql	03/03/2020 9:51	Microsoft SQL Ser...	3 KB																																																																										
2.	<p>Buka Maintenance Plan Wizard, di Object Explorer, expand Server, expand Management, klik kanan Maintenance Plans, dan klik Maintenance Plan Wizard).</p>  <p>SQL Server Maintenance Plan Wizard</p> <p>This wizard helps you create a maintenance plan that SQL Server Agent can run on a regular basis. With this wizard you can perform routine database administration tasks such as:</p> <ul style="list-style-type: none">• Check database integrity• Perform index maintenance• Update database statistics• Perform database backups <p>This wizard will create maintenance plans that can be edited in SQL Server Management Studio. Edit maintenance plans to add new tasks or define workflow among the tasks.</p> <p><input type="checkbox"/> Do not show this starting page again.</p> <p>Help < Back Next > Finish Cancel</p>																																																																												
3.	Buat plan baru dengan klik Next dan beri nama daily maintenance																																																																												

Maintenance Plan Wizard

Select Plan Properties

How do you want to schedule your maintenance tasks?

Name:

Description:

Run as:

☐ Separate schedules for each task
☒ Single schedule for the entire plan or no schedule

Schedule:

Atur Schedule dengan klik change dan set jadwal maintenance tiap hari pada pukul 9 malam, klik OK, Klik Next.

New Job Schedule

Name:

Schedule type: ☒ Enabled

One-time occurrence

Date: Time:

Frequency

Occurs:

Recurs every: week(s) on

☐ Monday ☐ Wednesday ☐ Friday ☐ Saturday
☐ Tuesday ☐ Thursday ☒ Sunday

Daily frequency

☒ Occurs once at:
☐ Occurs every: hour(s) Starting at: Ending at:

Duration

Start date:
☐ End date:
☒ No end date:

Summary

Description:

Pilih Maintenance Task, Pada halaman Select Maintenance Task pilih BackUp Database (Full) dan Check Database Integrity, klik Next.

Maintenance Plan Wizard

Select Maintenance Tasks
Which tasks should this plan perform?

Select one or more maintenance tasks:

- ☒ Check Database Integrity
- ☐ Shrink Database
- ☐ Reorganize Index
- ☐ Rebuild Index
- ☐ Update Statistics
- ☐ Clean Up History
- ☐ Execute SQL Server Agent Job
- ☒ Back Up Database (Full)
- ☐ Back Up Database (Differential)
- ☐ Back Up Database (Transaction Log)
- ☐ Maintenance Cleanup Task

The Back Up Database (Full) task allows you to specify the source databases, destination files or tapes, and overwrite options for a full backup.

Help < Back Next > Finish Cancel

Atur pengecekan Integritas database. Pada halaman Define database Integrity Check pilih semua database kecuali CoreAdmin, klik OK, klik Next.

Maintenance Plan Wizard

Define Database Check Integrity Task
Configure the maintenance task.

Databases: <Select one or more>

- ☒ Include indexes
- ☒ Physical Only
- ☐ Tablock
- ☐ Max Degree of Parallelism

Schedule:
Not scheduled (On Demand)

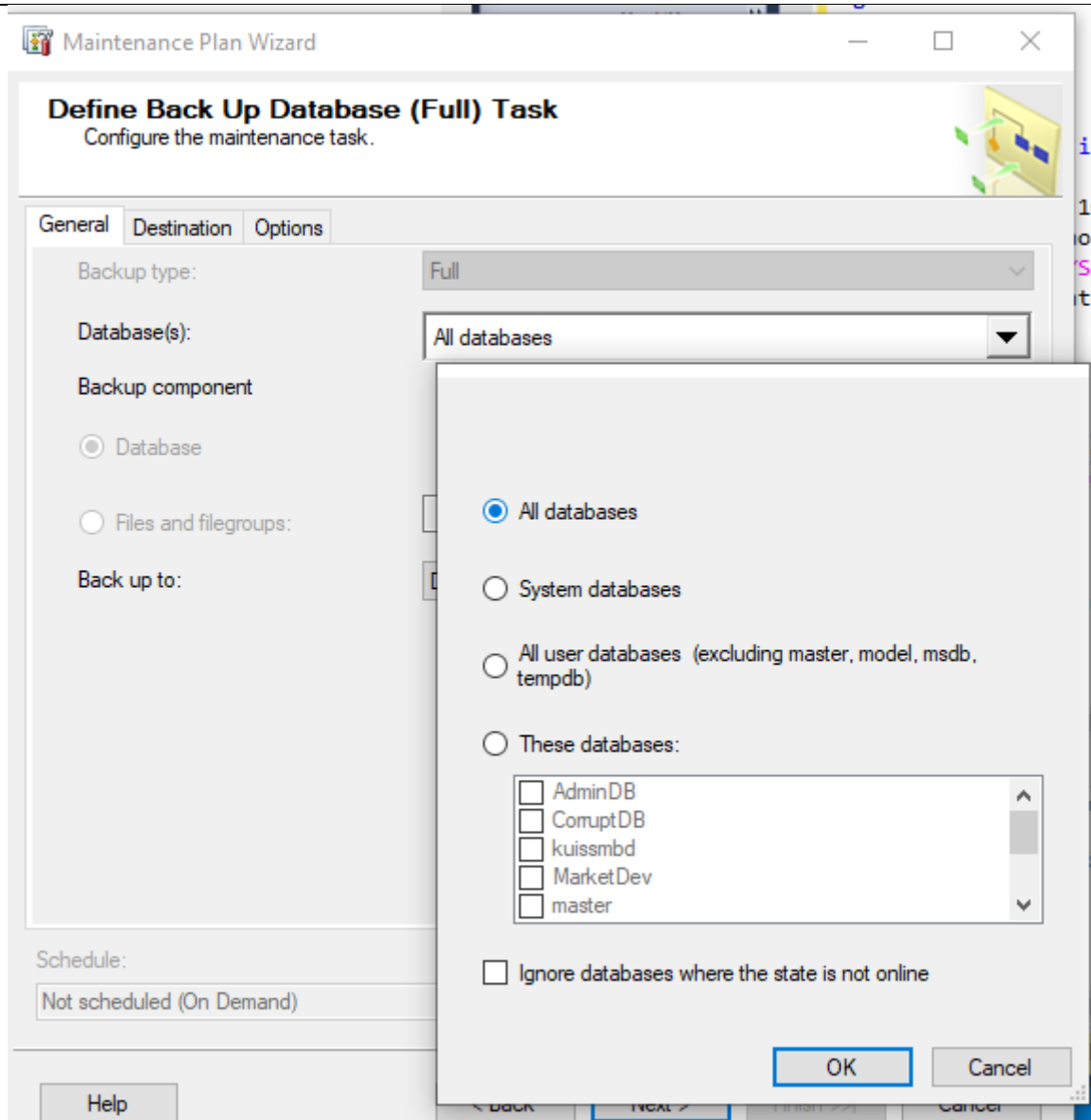
Help

1, pilih All Database, Klik OK

All databases
System databases
All user databases (excluding master, model, msdb, tempdb)
☒ These databases:
master
ModeDB
model
msdb
TestAlertDB
☐ Ignore databases where the state is not online

OK Cancel

Atur pencadangan database penuh. Pada halaman Define Backup Database (Full), tab General, pilih All Database, Klik OK.



8.

Pada tab Destination set folder ke E:\SQLBackUp dan centang (check) opsi Create subdirectory, klik Next.

Maintenance Plan Wizard

Define Back Up Database (Full) Task
Configure the maintenance task.

General Destination Options

☐ Back up databases across one or more files:

☐ Create a backup file for every database

☒ Create a sub-directory for each database

Folder:

SQL credential: Create...

Azure storage container:

URL prefix:

Backup file extension:

If backup files exist:

Schedule:

Change...

Help < Back Next > Finish >> Cancel

9. Atur opsi pelaporan dan selesaikan wizard.
Pada halaman select report options check write a report dan set folder ke E:\SQLBackUp, klik Next, Klik Finish.

Maintenance Plan Wizard

Select Report Options

Select options for saving or distributing a report of the maintenance plan actions.

☒ Write a report to a text file

Folder location:

C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSER

...

☐ E-mail report

To:

DBA Support Team

▼

Help

< Back

Next >

Finish >>

Cancel

Completion time: 2

Setelah itu pastikan pembuatan maintenance plan sukses, dan klik Close.

Maintenance Plan Wizard

Maintenance Plan Wizard Progress

Click Stop to interrupt the operation.

Success

5 Total0 Error
5 Success0 Warning

Details:

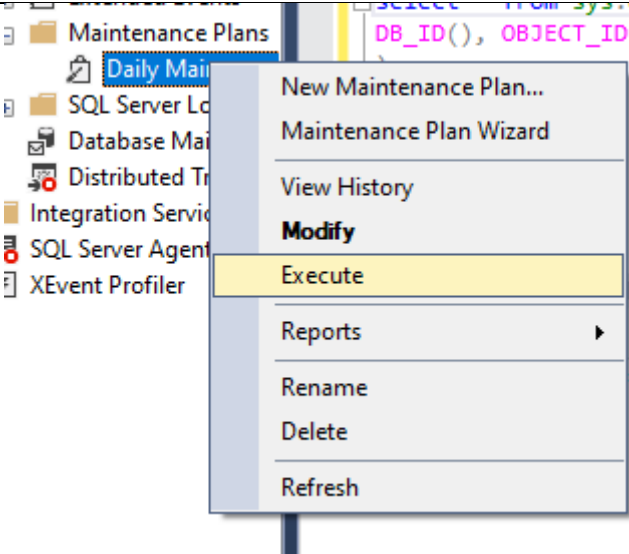
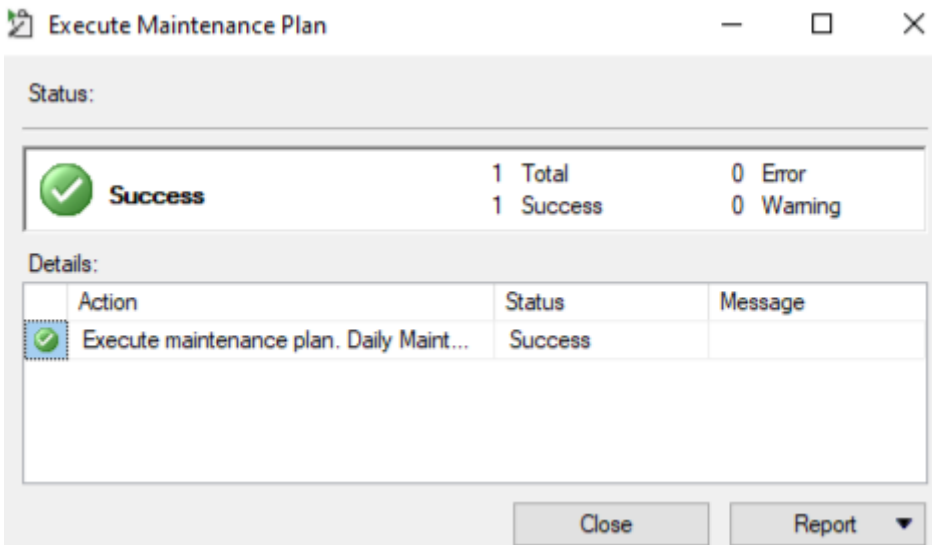
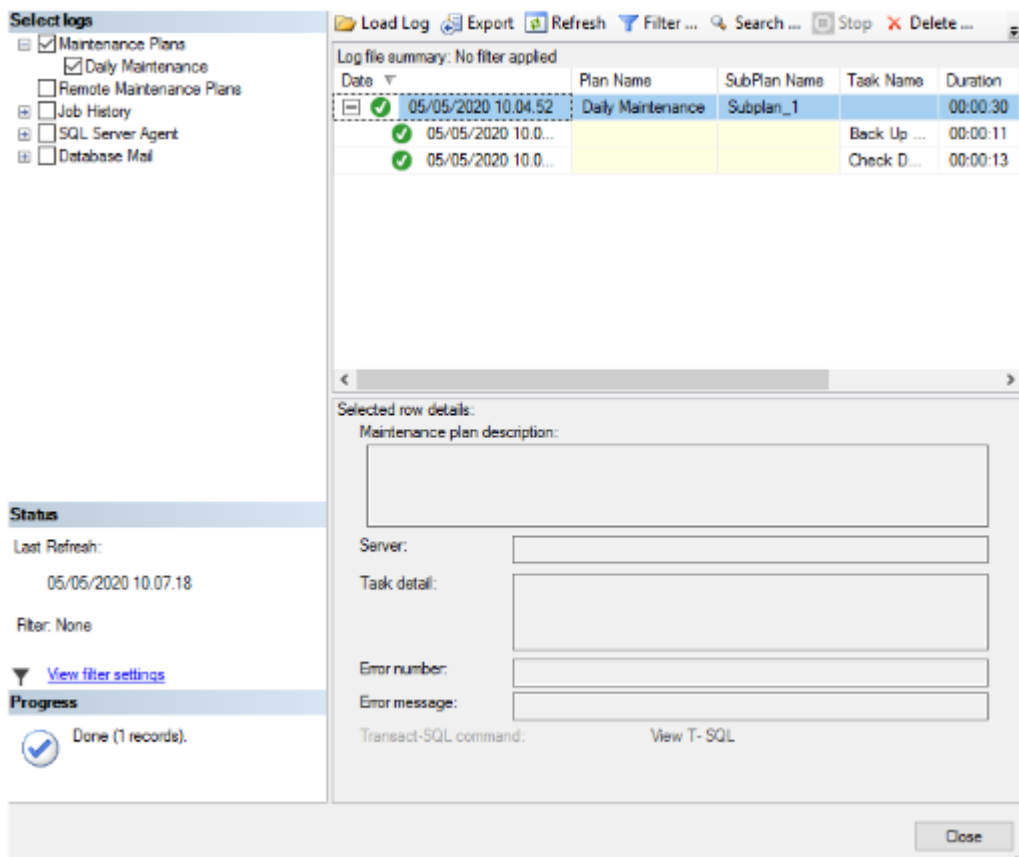
Action	Status	Message
Creating maintenance plan "Daily Maintenance"	Success	
Adding tasks to the maintenance plan	Success	
Adding scheduling options	Success	
Adding reporting options	Success	
Saving maintenance plan "Daily Maintenance"	Success	

Stop

Report ▼

Close

Eksekusi Daily maintenance secara manual, expand Maintenance Plan, klik kanan, klik Execute.

																						
12.	<p>Tunggu hingga proses sukses, dan klik Close.</p>  <table><tr><th colspan="3">Status:</th></tr><tr><td></td><td>Success</td><td></td></tr><tr><td></td><td>1 Total</td><td>0 Error</td></tr><tr><td></td><td>1 Success</td><td>0 Warning</td></tr><tr><th colspan="3">Details:</th></tr><tr><th>Action</th><th>Status</th><th>Message</th></tr><tr><td> Execute maintenance plan. Daily Maint...</td><td>Success</td><td></td></tr></table>	Status:				Success			1 Total	0 Error		1 Success	0 Warning	Details:			Action	Status	Message	Execute maintenance plan. Daily Maint...	Success	
Status:																						
	Success																					
	1 Total	0 Error																				
	1 Success	0 Warning																				
Details:																						
Action	Status	Message																				
Execute maintenance plan. Daily Maint...	Success																					
13.	<p>Lihat Daily Maintenance History.</p>																					
14.	<p>Pada Log File Viewer Summary Klik baris Check Database Integrity dan klik view T-SQL.</p> 																					

15.	Perhatikan window yang muncul, jelaskan maksudnya! (screenshot) Jawab:
16.	Lihat file Backup, folder, dan laporan, Menggunakan Windows Explorer, navigasikan ke folder E:\SQLBackup dan periksa isinya dan isi dari sub folder. Jelaskan apa yang ada fahami dari proses ini! (screenshot) Jawab: Dari folder yang kita buka tersebut isi di dalamnya adalah hasil dari backup semua file dari Microsoft Sql lalu di pindahkan ke dalam folder F:\sqlbackup
17	Dalam folder E:\SQLBackup buka dokumen teks menggunakan editor teks, lihat Laporan Daily Maintenance, Jelaskan apa yang ada fahami dari proses ini! (screenshot) Jawab: Yang Dari file tersebut berisikan laporan pemberitahuan sukses atau tidaknya dalam melakukan backup data

-- Selamat Mengerjakan --