

# REPORT FOR TASK 3, VARIANT # 8

## 1. First subtask:

- a

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'ALEXEY\_KOSYUK'. The main window shows a SQL query script for creating a table named 'Address' in the 'dbo' schema. The script includes a 'USE' statement, a 'GO' command, an 'ALTER TABLE' statement to add a 'PersonName' column, and a 'DECLARE' statement for a table variable. The table variable is then populated with data from the 'Address' table. The Messages pane at the bottom shows the execution results, indicating that 6 rows were affected and the query executed successfully.

```
1 USE ALEXEY_KOSYUK;
2 GO
3
4 -- a
5 ALTER TABLE [dbo].[Address]
6 ADD [PersonName] NVARCHAR(100);
7
8 -- b
9 DECLARE @addressVariable TABLE
10 (
11 [AddressID] INT NOT NULL PRIMARY KEY,
12 [AddressLine1] NVARCHAR(60) NOT NULL,
13 [AddressLine2] NVARCHAR(60) NOT NULL,
14 [City] NVARCHAR(30) NOT NULL,
15 [StateProvinceID] INT NOT NULL,
16 [PostalCode] NVARCHAR(15) NOT NULL,
17 [ModifiedDate] DATETIME NOT NULL,
18 [ID] INT NOT NULL UNIQUE,
19 [PersonName] NVARCHAR(100) NULL
20 );
21
22 INSERT INTO @addressVariable
23 (
24 [AddressID],
25 [AddressLine1],
26 [AddressLine2],
27 [City],
28 [StateProvinceID],
```

Messages

(6 rows affected)

Completion time: 2019-10-20T03:44:33.0698298+03:00

100 %

Query executed successfully.

LT-BY-AKOSYUK (14.0 RTM) AM\akosyuk (59) ALEXEY\_KOSYUK 00:00:00 0 rows

- b, c

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'ALEXEY\_KOSYUK'. The main window shows a SQL query script for selecting the top 1000 rows from the 'Address' table. The script includes a 'USE' statement, a 'GO' command, and a 'SELECT' statement. The query results are displayed in the Results pane at the bottom, showing a list of addresses with columns for AddressID, AddressLine1, AddressLine2, City, StateProvinceID, PostalCode, ModifiedDate, ID, and PersonName. The Messages pane at the bottom shows the execution results, indicating that 1,000 rows were returned and the query executed successfully.

```
1 /***** Script for SelectTopRows command from SSRS *****/
2 SELECT TOP (1000) [AddressID]
3 , [AddressLine1]
4 , [AddressLine2]
5 , [City]
6 , [StateProvinceID]
7 , [PostalCode]
8 , [ModifiedDate]
9 , [ID]
10 , [PersonName]
11 FROM [ALEXEY_KOSYUK].[dbo].[Address]
```

Results

AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	ModifiedDate	ID	PersonName
36	34 Waterloo Road	AU, Victoria, Bendigo	Melbourne	77	3000	2007-06-24 00:00:00.000	1	Craig Sanz
11437	3852 Northridge Dr.	AU, Victoria, South Melbour...	Geelong	77	3220	2008-04-02 00:00:00.000	8	Victor Gom...
11441	8426 Easley Dr.	AU, Victoria, Bendigo	Melton	77	3337	2007-11-03 00:00:00.000	9	Craig Sanz
11463	2111 Freedom Court	AU, Victoria, South Melbour...	Sunbury	77	3429	2005-12-05 00:00:00.000	1.	Victor Gom...
11474	2665 B Wildbrook Ct	AU, Victoria, Bendigo	Warrnambool	77	3280	2006-08-08 00:00:00.000	1.	Craig Sanz
11482	5636 Barcelona	AU, Victoria, South Melbour...	Carlsruhe	77	3977	2006-04-03 00:00:00.000	1.	Victor Gom...
11493	793 Crawford Street	AU, Victoria, Bendigo	South Melbour...	77	3205	2005-12-11 00:00:00.000	1.	Craig Sanz
11516	9549 Roxbury Drive	AU, Victoria, South Melbour...	Bendigo	77	3550	2007-04-15 00:00:00.000	1.	Victor Gom...
11517	593 Willow Pass Road	AU, Victoria, Bendigo	Melbourne	77	3000	2007-06-14 00:00:00.000	1.	Craig Sanz
11530	935 Vista Oak Dr	AU, Victoria, South Melbour...	Bendigo	77	3550	2007-06-24 00:00:00.000	1.	Victor Gom...
11541	7330 Saddlehill Lane	AU, Victoria, Bendigo	Sunbury	77	3429	2005-07-15 00:00:00.000	1.	Craig Sanz
11542	4055 Leonard Ct	AU, Victoria, South Melbour...	Warrnambool	77	3280	2008-03-30 00:00:00.000	1.	Victor Gom...
11567	7596 Valley View Ro.	AU, Victoria, Bendigo	Sunbury	77	3429	2007-02-18 00:00:00.000	1.	Craig Sanz
11574	3847 Vista Valley Rd	AU, Victoria, South Melbour...	Hobart	71	7001	2005-01-16 00:00:00.000	2.	Victor Gom...
11598	5324 Horseshoe Circ.	AU, Victoria, Bendigo	Melbourne	77	3000	2005-12-21 00:00:00.000	2.	Craig Sanz
11599	9995 All Ways Drive	AU, Victoria, South Melbour...	Hobart	71	7001	2008-07-02 00:00:00.000	2.	Victor Gom...
11609	3445 Fine Drive	AU, Victoria, Bendigo	Oranbourne	77	3977	2008-05-29 00:00:00.000	2.	Craig Sanz
11617	5844 Miguel Drive	AU, Victoria, South Melbour...	Hobart	71	7001	2007-11-05 00:00:00.000	2.	Victor Gom...
11618	2489 Teakwood Drive	AU, Victoria, Bendigo	Sunbury	77	3429	2007-01-23 00:00:00.000	2.	Craig Sanz
11635	2775 Robinson Ave.	AU, Victoria, South Melbour...	Sunbury	77	3429	2005-12-19 00:00:00.000	2.	Victor Gom...
11656	406 Pacific Avenue	AU, Victoria, Bendigo	Seaford	77	3198	2006-12-27 00:00:00.000	2.	Craig Sanz
11696	3608 Sinclair Avenue	AU, Victoria, South Melbour...	Warrnambool	77	3280	2007-11-01 00:00:00.000	2.	Victor Gom...
11699	4594 Rose Dr.	AU, Victoria, Bendigo	Geelong	77	3220	2006-05-25 00:00:00.000	2.	Craig Sanz

Query executed successfully.

LT-BY-AKOSYUK (14.0 RTM) AM\akosyuk (51) ALEXEY\_KOSYUK 00:00:00 1,000 rows

- d

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'LT-BY-AKOSYUK'. The main query window contains a T-SQL script that sets a variable, performs an inner join to find business entity addresses, and then deletes records from the 'Address' table where the address type is 'Main Office'. The Messages pane at the bottom indicates that 6 rows were affected and the query executed successfully.

```
52 SET
53 [AddressLine2] = [VAR].[AddressLine2],
54 [PersonName] = [PER].[FirstName] + ' ' + [PER].[LastName]
55 FROM @addressVariable AS [VAR]
56 INNER JOIN [AdventureWorks2012].[Person].[BusinessEntityAddress] AS [BEA]
57 ON [BEA].[AddressID] = [VAR].[AddressID]
58 INNER JOIN [AdventureWorks2012].[Person].[Person] AS [PER]
59 ON [PER].[BusinessEntityID] = [BEA].[BusinessEntityID];
60
61 -- d
62 DELETE [ADR]
63 FROM [dbo].[Address] AS [ADR]
64 INNER JOIN [AdventureWorks2012].[Person].[BusinessEntityAddress] AS [BEA]
65 ON [BEA].[AddressID] = [ADR].[AddressID]
66 INNER JOIN [AdventureWorks2012].[Person].[AddressType] AS [AT]
67 ON [AT].[AddressTypeID] = [BEA].[AddressTypeID] AND [AT].[Name] = 'Main Office';
68
69
70
```

100 %  
Messages  
(6 rows affected)  
Completion time: 2019-10-20T03:44:33.0698298+03:00  
100 %  
Query executed successfully. LT-BY-AKOSYUK (14.0 RTM) AM\akosyuk (59) ALEXEY\_KOSYUK 00:00:00 0 rows

- e

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'LT-BY-AKOSYUK'. The main query window contains a T-SQL script that drops a column from the 'Address' table, identifies constraints, and then drops a specific constraint. The Results pane at the bottom shows the list of constraints, and the Messages pane indicates that 4 rows were affected and the query executed successfully.

```
69 -- e
70 ALTER TABLE [dbo].[Address]
71 DROP COLUMN [PersonName];
72
73 SELECT [INF].[CONSTRAINT_NAME] FROM [ALEXEY_KOSYUK].[INFORMATION_SCHEMA.CONSTRAINT_TABLE_USAGE] AS [INF]
74 WHERE TABLE_SCHEMA = 'dbo' AND TABLE_NAME = 'Address';
75
76 SELECT [CON].[name]
77 FROM sys.default_constraints AS [CON]
78 INNER JOIN sys.objects AS [OB]
79 ON [CON].[parent_object_id] = [OB].[object_id] AND schema_name([OB].[schema_id]) + '.' + [OB].[name] = 'dbo.Address'
80 ORDER BY [CON].[name];
81
82 ALTER TABLE [dbo].[Address]
83 DROP CONSTRAINT
84 [UQ_Address__3214EC2620FEED60],
85 [CH_Address_StateProvinceID],
86 [DF_Address_AddressLine2];
87
```

100 %  
Results Messages  
CONSTRAINT\_NAME  
1 PK\_Address\_091C2A1B21A83EDF  
2 UQ\_Address\_\_3214EC2620FEED60  
3 CH\_Address\_StateProvinceID  
name  
1 DF\_Address\_AddressLine2  
Query executed successfully. LT-BY-AKOSYUK (14.0 RTM) AM\akosyuk (59) ALEXEY\_KOSYUK 00:00:00 4 rows

Microsoft SQL Server Management Studio (SSMS) interface showing a query execution in the V8\_1.sql - LT-BY-AKOSYUK.ALEXEY\_KOSYUK (AM\akosyuk (59)) database.

**Object Explorer:** The left pane shows the database structure. The **Columns** folder under **dbo.Address** is highlighted with a red box, showing the following columns:

- AddressID (PK, int, not null)
- AddressLine1 (nvarchar(60), not null)
- AddressLine2 (nvarchar(60), not null)
- City (nvarchar(30), not null)
- StateProvinceID (int, not null)
- PostalCode (nvarchar(15), not null)
- ModifiedDate (datetime, not null)
- ID (int, not null)

**Query Window:** The main pane displays a SQL script with the following commands:

```
-- e
69 ALTER TABLE [dbo].[Address]
70 DROP COLUMN [PersonName];
71
72
73 SELECT [INF].[CONSTRAINT_NAME] FROM [ALEXEY_KOSYUK].INFORMATION_SCHEMA.CONSTRAINT_TABLE_USAGE AS [INF]
74 WHERE TABLE_SCHEMA = 'dbo' AND TABLE_NAME = 'Address';
75
76 SELECT [CON].[name]
77 FROM sys.default_constraints AS [CON]
78 INNER JOIN sys.objects AS [OB]
79 ON [CON].[parent_object_id] = [OB].[object_id] AND schema_name([OB].[schema_id]) + '.' + [OB].[name] = 'dbo.Address'
80 ORDER BY [CON].[name];
81
82 ALTER TABLE [dbo].[Address]
83 DROP CONSTRAINT
84 [UQ_Address_3214EC2620FEED60],
85 [CH_Address_StateProvinceID],
86 [DF_Address_AddressLine2];
87
```

**Messages:** The bottom pane shows the execution results:

```
100 %
Messages
Commands completed successfully.
Completion time: 2019-10-20T04:26:36.8966471+03:00
```

**Status Bar:** The bottom status bar indicates "Query executed successfully." and "LT-BY-AKOSYUK (14.0 RTM) | AM\akosyuk (59) | ALEXEY\_KOSYUK | 00:00:00 | 0 rows".

- f

Microsoft SQL Server Management Studio (SSMS) interface showing a query execution in the V8\_1.sql - LT-BY-AKOSYUK.ALEXEY\_KOSYUK (AM\akosyuk (59)) database.

**Object Explorer:** The left pane shows the database structure. The **Tables** folder under **dbo** is highlighted with a red box, showing the following tables:

- Address
- AddressLine1
- AddressLine2
- City
- StateProvinceID
- PostalCode
- ModifiedDate
- ID

**Query Window:** The main pane displays a SQL script with the following commands:

```
-- e
69 ALTER TABLE [dbo].[Address]
70 DROP COLUMN [PersonName];
71
72
73 SELECT [INF].[CONSTRAINT_NAME] FROM [ALEXEY_KOSYUK].INFORMATION_SCHEMA.CONSTRAINT_TABLE_USAGE AS [INF]
74 WHERE TABLE_SCHEMA = 'dbo' AND TABLE_NAME = 'Address';
75
76 SELECT [CON].[name]
77 FROM sys.default_constraints AS [CON]
78 INNER JOIN sys.objects AS [OB]
79 ON [CON].[parent_object_id] = [OB].[object_id] AND schema_name([OB].[schema_id]) + '.' + [OB].[name] = 'dbo.Address'
80 ORDER BY [CON].[name];
81
82 ALTER TABLE [dbo].[Address]
83 DROP CONSTRAINT
84 [UQ_Address_3214EC2620FEED60],
85 [CH_Address_StateProvinceID],
86 [DF_Address_AddressLine2];
87
-- f
88 DROP TABLE [dbo].[Address];
89
90
```

**Messages:** The bottom pane shows the execution results:

```
100 %
Messages
Commands completed successfully.
Completion time: 2019-10-20T04:28:39.7282324+03:00
```

**Status Bar:** The bottom status bar indicates "Query executed successfully." and "LT-BY-AKOSYUK (14.0 RTM) | AM\akosyuk (59) | ALEXEY\_KOSYUK | 00:00:00 | 0 rows".

2. Second subtask: