REPORT FOR TASK 4, VARIANT 8

1. First subtask:

a:

b:

c:


```sql
55    CREATE TRIGGER [TR_CountryRegion_AD] ON [Person].[CountryRegion]
56    AFTER DELETE
57    AS
58    BEGIN
59        INSERT INTO [ALEXEY_KOSYUK].[Person].[CountryRegionHst]
60        (
61            [Action],
62            [SourceID]
63        )
64        SELECT
65            'DELETE',
66            [D].[CountryRegionCode]
67        FROM [DELETED] AS [D];
68    END
69    GO
70
71    -- c
72    CREATE VIEW [Person].[CountryRegion_View]
73    WITH ENCRYPTION
74    AS
75        SELECT * FROM [Person].[CountryRegion];
76    GO
77
```

d:
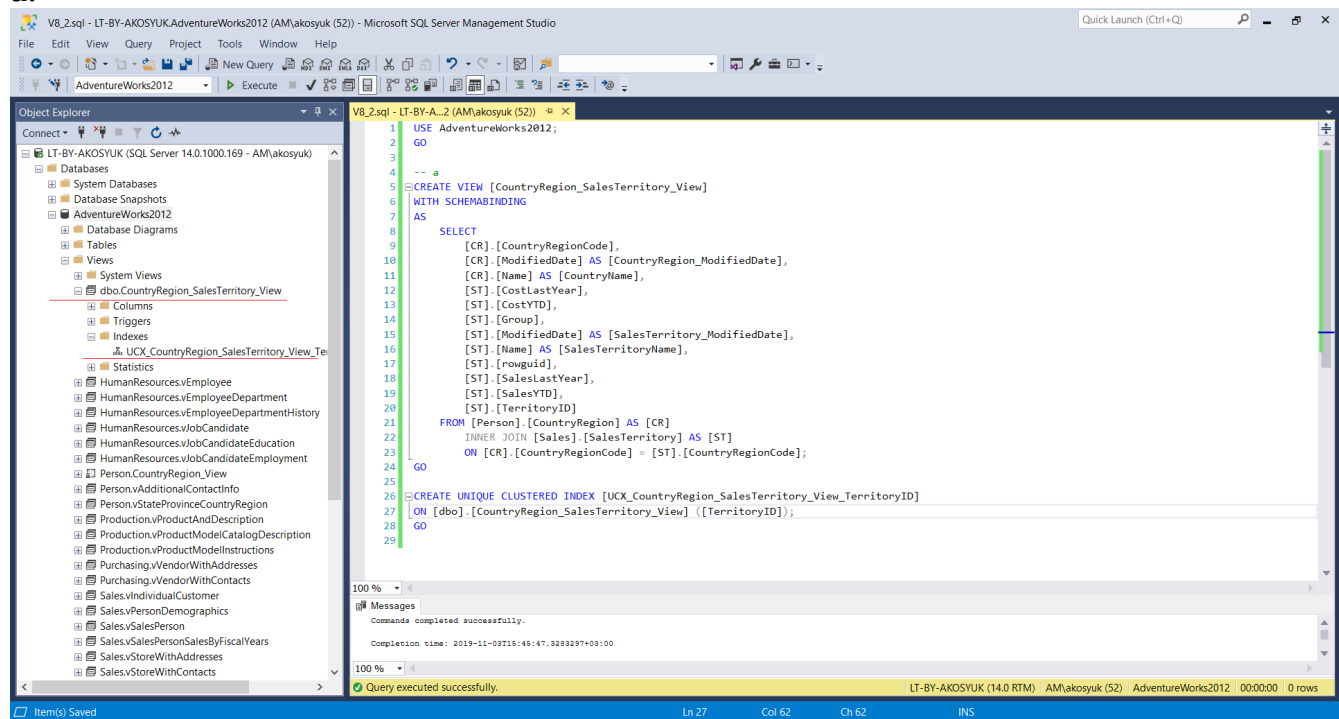
	ID	Action	ModifiedDate	SourceID	UserName
1	1	INSERT	2019-11-03 00:59:00.267	NV	dbo
2	2	UPDATE	2019-11-03 01:10:07.947	NV	dbo
3	3	DELETE	2019-11-03 01:10:12.443	NV	dbo

2. Second subtask:

a:

```sql
USE AdventureWorks2012;
GO

-- a
CREATE VIEW [CountryRegion_SalesTerritory_View]
WITH SCHEMABINDING
AS
    SELECT
        [CR].[CountryRegionCode],
        [CR].[ModifiedDate] AS [CountryRegion_ModifiedDate],
        [CR].[Name] AS [CountryName],
        [ST].[CostLastYear],
        [ST].[CostYTD],
        [ST].[Group],
        [ST].[ModifiedDate] AS [SalesTerritory_ModifiedDate],
        [ST].[Name] AS [SalesTerritoryName],
        [ST].[rowguid],
        [ST].[SalesLastYear],
        [ST].[SalesYTD],
        [ST].[TerritoryID]
    FROM [Person].[CountryRegion] AS [CR]
        INNER JOIN [Sales].[SalesTerritory] AS [ST]
        ON [CR].[CountryRegionCode] = [ST].[CountryRegionCode];
GO

CREATE UNIQUE CLUSTERED INDEX [UCX_CountryRegion_SalesTerritory_View_TerritoryID]
ON [dbo].[CountryRegion_SalesTerritory_View] ([TerritoryID]);
GO
```

b:
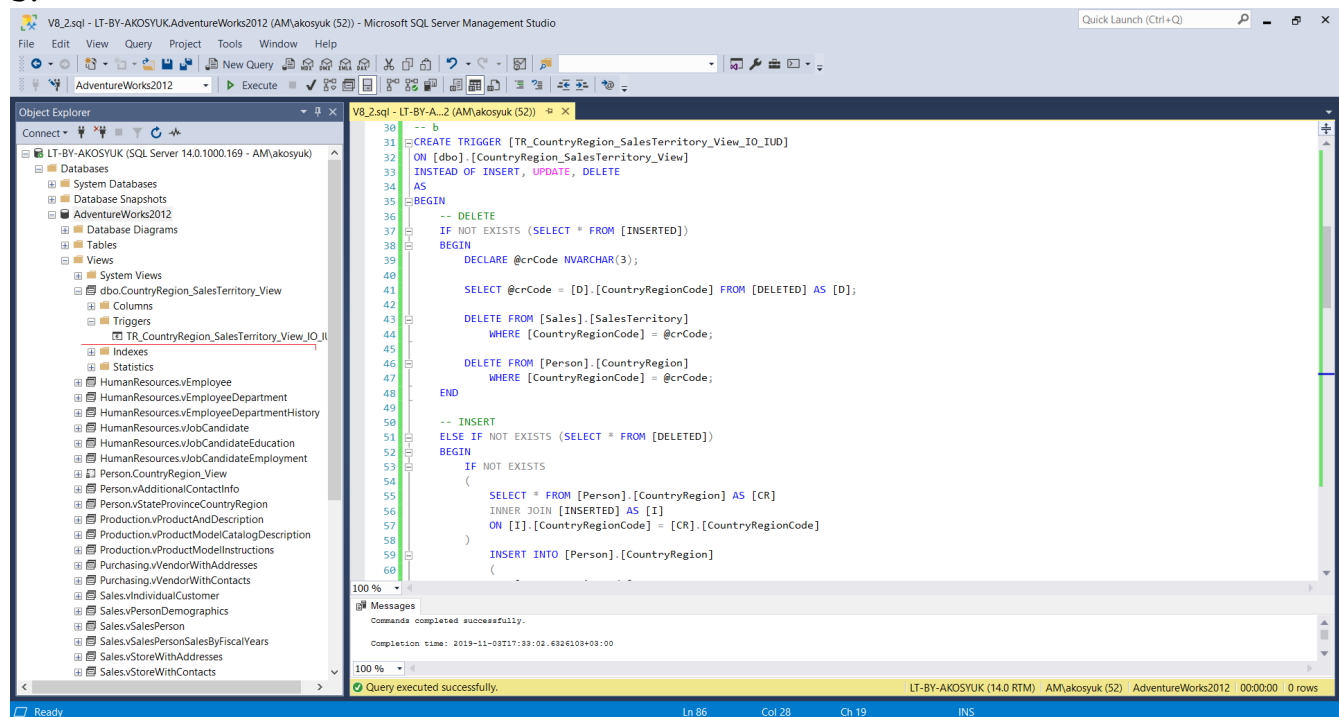
```sql
-- b
CREATE TRIGGER [TR_CountryRegion_SalesTerritory_View_IO_IUD]
ON [dbo].[CountryRegion_SalesTerritory_View]
INSTEAD OF INSERT, UPDATE, DELETE
AS
BEGIN
    -- DELETE
    IF NOT EXISTS (SELECT * FROM [INSERTED])
    BEGIN
        DECLARE @crCode NVARCHAR(3);

        SELECT @crCode = [D].[CountryRegionCode] FROM [DELETED] AS [D];

        DELETE FROM [Sales].[SalesTerritory]
            WHERE [CountryRegionCode] = @crCode;

        DELETE FROM [Person].[CountryRegion]
            WHERE [CountryRegionCode] = @crCode;
    END

    -- INSERT
    ELSE IF NOT EXISTS (SELECT * FROM [DELETED])
    BEGIN
        IF NOT EXISTS
        (
            SELECT * FROM [Person].[CountryRegion] AS [CR]
            INNER JOIN [INSERTED] AS [I]
            ON [I].[CountryRegionCode] = [CR].[CountryRegionCode]
        )
            INSERT INTO [Person].[CountryRegion]
            (
```

c:

Result 1

CountryRegionCode	CountryRegion_ModifiedDate	CountryName	CostLastYear	CostYTD	Group	SalesTerritory_ModifiedDate	SalesTerritoryName	rowguid	SalesLastYear	SalesYTD
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Northwest	43689A10-E30B-497F-B0DE-11DE20267FF7	3298694.49...	7887186.7882
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Northeast	00FB7309-96CC-49E2-8363-0A1BA72486F2	3607148.93...	2402176.8476
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Central	DF6E7FD8-1A8D-468C-B103-ED8ADDB452...	3205014.07...	3072175.118
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Southwest	DC3E9EA0-7950-4431-9428-99DBCBC33865	5366575.70...	10510853.873
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Southeast	6DC4165A-5E4C-42D2-809D-4344E0AC75E7	3925071.43...	2538667.2515
CA	2002-06-01 00:00:00.000	Canada	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Canada	06B4AF8A-1639-476E-9266-110461D66B00	5693988.86	6771829.1376
FR	2002-06-01 00:00:00.000	France	0.00	0.00	Europe	2002-06-01 00:00:00.000	France	BF806804-9B4C-4B07-9D19-706F2E689552	2396539.76...	4772398.3078
DE	2002-06-01 00:00:00.000	Germany	0.00	0.00	Europe	2002-06-01 00:00:00.000	Germany	6D2450DB-8159-414F-A917-E73EE91C38A9	1307949.79...	3805202.3478
AU	2002-06-01 00:00:00.000	Australia	0.00	0.00	Pacific	2002-06-01 00:00:00.000	Australia	602E612E-DFE9-41D9-B894-27E489747885	2278548.97...	5977814.9154
GB	2002-06-01 00:00:00.000	United Kingdo...	0.00	0.00	Europe	2002-06-01 00:00:00.000	United Kingdom	05FC7E1F-2DEA-414E-9ECD-09D150516FB5	1635823.39...	5012905.3656
NV	2019-11-03 17:45:07.290	NEVARK	25.00	50.00	USA	2019-11-03 17:45:07.290	NEVARK	A1013498-3AD5-4A11-9FE8-DC891A5DA7D0	300.00	100.00

Query executed successfully. | LT-BY-AKOSYUK (14.0 RTM) | AM\akosyuk (54) | AdventureWorks2012 | 00:00:00 | 11 rows

Result 2

CountryRegionCode	CountryRegion_ModifiedDate	CountryName	CostLastYear	CostYTD	Group	SalesTerritory_ModifiedDate	SalesTerritoryName	rowguid	SalesLastYear	SalesYTD
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Northwest	43689A10-E30B-497F-B0DE-11DE20267FF7	3298694.49...	7887186.7882
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Northeast	00FB7309-96CC-49E2-8363-0A1BA72486F2	3607148.93...	2402176.8476
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Central	DF6E7FD8-1A8D-468C-B103-ED8ADDB452...	3205014.07...	3072175.118
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Southwest	DC3E9EA0-7950-4431-9428-99DBCBC33865	5366575.70...	10510853.873
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Southeast	6DC4165A-5E4C-42D2-809D-4344E0AC75E7	3925071.43...	2538667.2515
CA	2002-06-01 00:00:00.000	Canada	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Canada	06B4AF8A-1639-476E-9266-110461D66B00	5693988.86	6771829.1376
FR	2002-06-01 00:00:00.000	France	0.00	0.00	Europe	2002-06-01 00:00:00.000	France	BF806804-9B4C-4B07-9D19-706F2E689552	2396539.76...	4772398.3078
DE	2002-06-01 00:00:00.000	Germany	0.00	0.00	Europe	2002-06-01 00:00:00.000	Germany	6D2450DB-8159-414F-A917-E73EE91C38A9	1307949.79...	3805202.3478
AU	2002-06-01 00:00:00.000	Australia	0.00	0.00	Pacific	2002-06-01 00:00:00.000	Australia	602E612E-DFE9-41D9-B894-27E489747885	2278548.97...	5977814.9154
GB	2002-06-01 00:00:00.000	United Kingdo...	0.00	0.00	Europe	2002-06-01 00:00:00.000	United Kingdom	05FC7E1F-2DEA-414E-9ECD-09D150516FB5	1635823.39...	5012905.3656
NV	2019-11-03 17:45:07.290	NevArk	25.00	50.00	Usa	2019-11-03 17:45:07.290	NEVARK	A1013498-3AD5-4A11-9FE8-DC891A5DA7D0	20.00	100.00

Query executed successfully. | LT-BY-AKOSYUK (14.0 RTM) | AM\akosyuk (54) | AdventureWorks2012 | 00:00:00 | 11 rows

Result 3

CountryRegionCode	CountryRegion_ModifiedDate	CountryName	CostLastYear	CostYTD	Group	SalesTerritory_ModifiedDate	SalesTerritoryName	rowguid	SalesLastYear	SalesYTD
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Northwest	43689A10-E30B-497F-B0DE-11DE20267FF7	3298694.49...	7887186.7882
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Northeast	00FB7309-96CC-49E2-8363-0A1BA72486F2	3607148.93...	2402176.8476
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Central	DF6E7FD8-1A8D-468C-B103-ED8ADDB452...	3205014.07...	3072175.118
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Southwest	DC3E9EA0-7950-4431-9428-99DBCBC33865	5366575.70...	10510853.873
US	2002-06-01 00:00:00.000	United States	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Southeast	6DC4165A-5E4C-42D2-809D-4344E0AC75E7	3925071.43...	2538667.2515
CA	2002-06-01 00:00:00.000	Canada	0.00	0.00	North Ameri...	2002-06-01 00:00:00.000	Canada	06B4AF8A-1639-476E-9266-110461D66B00	5693988.86	6771829.1376
FR	2002-06-01 00:00:00.000	France	0.00	0.00	Europe	2002-06-01 00:00:00.000	France	BF806804-9B4C-4B07-9D19-706F2E689552	2396539.76...	4772398.3078
DE	2002-06-01 00:00:00.000	Germany	0.00	0.00	Europe	2002-06-01 00:00:00.000	Germany	6D2450DB-8159-414F-A917-E73EE91C38A9	1307949.79...	3805202.3478
AU	2002-06-01 00:00:00.000	Australia	0.00	0.00	Pacific	2002-06-01 00:00:00.000	Australia	602E612E-DFE9-41D9-B894-27E489747885	2278548.97...	5977814.9154
GB	2002-06-01 00:00:00.000	United Kingdo...	0.00	0.00	Europe	2002-06-01 00:00:00.000	United Kingdom	05FC7E1F-2DEA-414E-9ECD-09D150516FB5	1635823.39...	5012905.3656

Query executed successfully. | LT-BY-AKOSYUK (14.0 RTM) | AM\akosyuk (54) | AdventureWorks2012 | 00:00:00 | 10 rows