Чеснаков Кирилл 751002 Вариант 8

Задание 1

```
V8_1.sql - LAPTOP-...84PQ7E9\Asus (56))* ×

-- Task a)

□IF OBJECT_ID('[Person].[CountryRegionHst]') IS NOT NULL

DROP TABLE [Person].[CountryRegionHst]

GO

□CREATE TABLE Person.CountryRegionHst(

[ID] int IDENTITY(1,1) NOT NULL PRIMARY KEY,

[Action] NVARCHAR(6) NOT NULL,

[ModifiedDate] DATETIME NOT NULL,

[SourceID] NVARCHAR(100) NOT NULL,

[UserName] NVARCHAR(100) NOT NULL

])

-- Task b)
```

```
-- Task b)
SELECT * from Person.CountryRegion
CREATE TRIGGER Person.After Trigger ON Person.CountryRegion
AFTER INSERT, UPDATE, DELETE AS
INSERT INTO Person.CountryRegionHst(Action, ModifiedDate, SourceID, UserName)
     SELECT
       WHEN inserted.CountryRegionCode IS NULL
         THEN 'delete
       WHEN deleted.CountryRegionCode IS NULL
         THEN 'insert'
       ELSE 'update'
       END AS Action,
       GETDATE() AS ModifiedDate,
       COALESCE(inserted.CountryRegionCode, deleted.CountryRegionCode) AS SourceID,
       USER_NAME() AS UserName
     FROM inserted
       FULL OUTER JOIN deleted
         ON inserted.CountryRegionCode = deleted.CountryRegionCode
```

```
V8_1.sql - LAPTOP-...84PQ7E9\Asus (56))* ×
    -- Task c)
    CREATE VIEW Person View CountryRegion WITH ENCRYPTION
    AS SELECT * FROM Person.CountryRegion
    -- Task d)
    INSERT INTO Person.View_CountryRegion (CountryRegionCode, ModifiedDate, Name)
    VALUES ('TT3', GETDATE(), 'Test')
    UPDATE Person.View_CountryRegion
        ModifiedDate = GETDATE(),
        Name = 'Test3'
    WHERE CountryRegionCode = 'TT3'
    DELETE FROM Person.View_CountryRegion
    WHERE CountryRegionCode = 'TT3'
    SELECT * FROM Person.CountryRegionHst
100 % -
Results 🔓 Messages
     ID Action ModifiedDate
                                   Source... UserNa...
    1 insert 2020-10-31 22:00:04.473 TT3
                                            dbo
2
    2 update 2020-10-31 22:00:30.800 TT3
                                            dbo
    3 delete 2020-10-31 22:00:35.053 TT3
3
                                            dbo
```

Задание 2

```
V8_2.sql - LAPTOP-...84PQ7E9\Asus (54))* ×
     CREATE VIEW View_CountryRegionSales WITH SCHEMABINDING AS
     SELECT Person CountryRegion CountryRegionCode,
            Person.CountryRegion.ModifiedDate AS Country_ModifiedDate,
             Person.CountryRegion.Name AS CountryName,
             Sales.SalesTerritory.TerritoryID,
             Sales . Sales Territory . CostLast Year,
             Sales SalesTerritory SalesLastYear
             Sales.SalesTerritory.SalesYTD,
             Sales.SalesTerritory.CostYTD,
             [Sales].[SalesTerritory].[Group],
             Sales.SalesTerritory.ModifiedDate AS Sales_ModifiedDate,
             Sales.SalesTerritory.Name AS SalesName,
             Sales.SalesTerritory.rowguid
             FROM Sales Sales Territory
     INNER JOIN Person.CountryRegion
    ON Sales.SalesTerritory.CountryRegionCode = Person.CountryRegion.CountryRegionCode
   --- SELECT * FROM Person.CountryRegion
  -- SELECT * FROM Sales.SalesTerritory
   □CREATE UNIQUE CLUSTERED INDEX [AK_View_CountryRegionSales_TerritoryID]
    ON View_CountryRegionSales (TerritoryID);
100 % -
Messages
  Command(s) completed successfully.
```

```
V8_2.sql - LAPTOP-...84PQ7E9\Asus (54))* X
     - Task b)
    CREATE TRIGGER Trigger_CountryRegionSales
    ON View_CountryRegionSales
INSTEAD OF INSERT, UPDATE, DELETE
    BEGIN
   -- update
IF EXISTS (SELECT * FROM inserted) AND EXISTS (SELECT * FROM deleted)
   BEGIN
        UPDATE Person.CountryRegion
         SET ModifiedDate = inserted.Country_ModifiedDate, Name = inserted.CountryName
         FROM Person.CountryRegion
         JOIN inserted
         ON Person.CountryRegion.CountryRegionCode = inserted.CountryRegionCode
        UPDATE Sales.SalesTerritory
SET CostLastYear = inserted.CostLastYear, CostYTD = inserted.CostYTD,
             [Group] = inserted.[Group], ModifiedDate = inserted.Sales_ModifiedDate,
Name = inserted.SalesName, rowguid = inserted.rowguid,
SalesLastYear = inserted.SalesLastYear, SalesYTD = inserted.SalesYTD
         FROM Sales.SalesTerritory
         JOIN inserted
         ON Sales.SalesTerritory.TerritoryID = inserted.TerritoryID
    -- insert
  ☐IF EXISTS (SELECT * FROM inserted) AND NOT EXISTS(SELECT * FROM deleted)
  BEGIN
         INSERT INTO Person.CountryRegion (CountryRegionCode, Name, ModifiedDate)
         SELECT CountryRegionCode, CountryName, Country_ModifiedDate
         FROM inserted
        INSERT INTO Sales.SalesTerritory (TerritoryID, Name, CountryRegionCode, [Group], SalesYTD, SalesLastYear, CostYTD, CostLastYear, rowguid, ModifiedDate)
         SELECT TerritoryID, SalesName, CountryRegionCode, [Group], SalesYTD, SalesLastYear,
                 CostYTD, CostLastYear, rowguid, Sales_ModifiedDate
         FROM inserted
    IF EXISTS (SELECT * FROM deleted) AND NOT EXISTS(SELECT * FROM inserted)
  BEGIN
         DELETE Person.CountryRegion
         FROM Person.CountryRegion
         JOIN deleted
         ON Person.CountryRegion.CountryRegionCode = deleted.CountryRegionCode
         DELETE Sales.SalesTerritory
         FROM Sales.SalesTerritory
         JOIN deleted
         ON Sales.SalesTerritory.TerritoryID = deleted.TerritoryID
              AND Sales.SalesTerritory.CountryRegionCode = deleted.CountryRegionCode
    END
    END
```

```
/8_2.sql - LAPTOP-...84PQ7E9\Asus (54))* ×
                 -SELECT * FROM Sales.SalesTerritory
              SELECT * FROM View_CountryRegionSales
                -- Task c)
              INSERT INTO View_CountryRegionSales (
                                  CountryRegionCode
                                 Country_ModifiedDate,
CountryName,
                                  TerritoryID,
CostLastYear
                                  SalesLastYear,
                                  SalesYTD,
                                  CostYTD.
                                  [Group],
                                  Sales_ModifiedDate,
              rowguid)

VALUES ('TTT', '2005-06-01 00:00:00.000', 'Test Country', 11, 1.1, 2.2, 3.3, 4.4, 'Test Group', '2005-06-01 00:00:00.000', 'Test Sales', NEWID())
              SELECT * FROM Person.CountryRegion
SELECT * FROM Sales.SalesTerritory
    100 % -
    Messages
          (1 row(s) affected)
          (1 row(s) affected)
          (1 row(s) affected)
          (1 row(s) affected)
    100 % -
                         Sales_ModifiedDate,
SalesName,
        SELECT * FROM Person.CountryRegion
SELECT * FROM Sales.SalesTerritory
100 % -
Results Messages
                             Name
Tonga
Turkey
Test2
Test Country
Tuvalu
Taiwan
Tonzania
Ukraine
Count
ModifiedDate
2002-06-01 00:00:00.000
2002-06-01 00:00:00.000
2020-10-31 21:57:42.230
2005-06-01 00:00:00.000
2002-06-01 00:00:00.000
                                                                          2002-06-01 00:00:00.000
                                                                          2002-06-01 00:00:00.000
                                                                          2002-06-01 00:00:00.000
                          Name CountryRegionC...
Central US
Southw... US
Southeast US
Canada CA
France FR

        Group
        SalesYTD
        SalesLastYear
        CostY

        North America
        3072175,118
        3205014,0767
        0,00

        North America
        10510853,8.
        5968575,7098
        0,00

        North America
        2538667,251
        3925071,4318
        0,00

        North America
        6771829,1378
        5693988,88
        0,00

        Europe
        4772398,3078
        2398539,7601
        0,00

                                                                                                                                                                CostLestY
0,00
0,00
0,00
0,00
0,00
          Territor
3
                                                                                                                                                                                      rowguid
DF6E7FD8-1A8D-468C-B103-ED8ADDB45...
DC3E9EA0-7950-4431-9428-99DBCBC338...
GDC116SA-5E4C-42D2-809D-4344E0AC75...
06B4AF8A-1639-476E-9266-110461D66B00
                                                                                                                                                                                                                                                        ModifiedDate
2002-06-01 00:00:00.000
2002-06-01 00:00:00.000
2002-06-01 00:00:00.000
                                                                                                                                                                                                                                                        2002-06-01 00:00:00.000
                                                                          Europe
Europe
Pacific
                                                                                                                                                                                      BF806804-9B4C-4B07-9D19-706F2E689552
                                                                                                                                                                                                                                                       2002-06-01 00:00:00.000

        Europe
        47/29/39/30/3
        239353/30/3
        0.00

        Europe
        3805202,3478
        1307949,7917
        0.00

        Pacific
        5977814,9154
        2278548,9776
        0.00

        Europe
        5012905,3656
        1635823,3967
        0.00

        Test Group
        3,30
        2,20
        4,40

                                                                                                                                                                0,00
0,00
0,00
0,00
1,10
                            Germany DE
Australia AU
                                                                                                                                                                                      6D2450DB-8159-414F-A917-E73EE91C38A9 2002-06-01 00:00:00.000
                                                                                                                                                                                      602E612E-DFE9-41D9-B894-27E489747885 2002-06-01 00:00:00:00
                                                                                                                                                                                      05FC7E1F-2DEA-414E-9ECD-09D150516F... 2002-06-01 00:00:00:00
21C44465-6964-4A6F-AF0B-AACD9AA416... 2005-06-01 00:00:00:00
        11
                                                                                                                                                                   LAPTOP-H84PQ7E9\SQLEXPRESS ... | LAPTOP-H84PQ7E9\Asus (54) | AdventureWorks2012 | 00:00:00 | 11 ro
```



