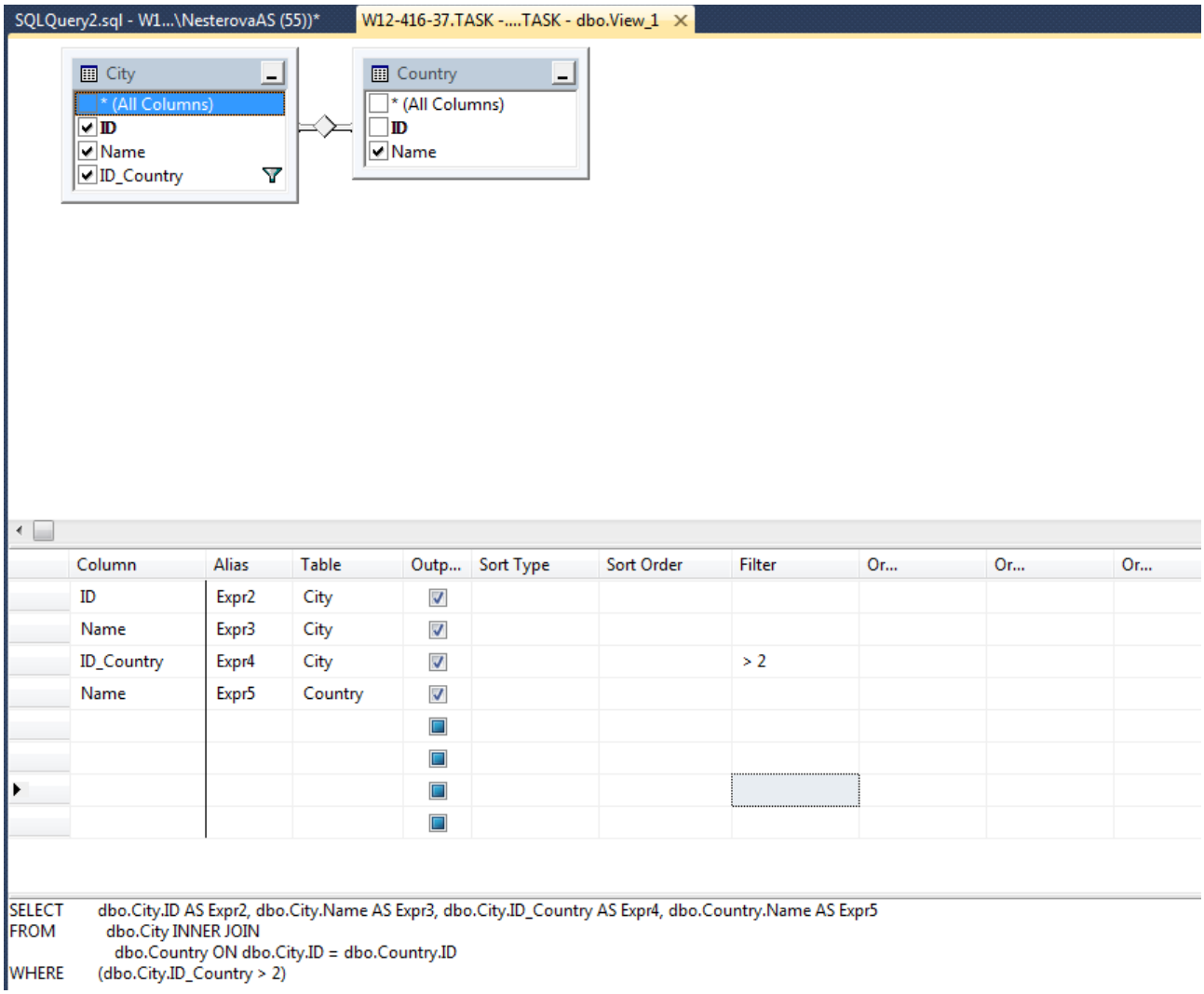
1. Создание представлений




```
USE [TASK]
GO
SELECT dbo.City.ID AS Expr2, dbo.City.Name AS Expr3, dbo.City.ID_Country AS Expr4,
dbo.Country.Name AS Expr5
FROM  dbo.City INNER JOIN dbo.Country ON dbo.City.ID = dbo.Country.ID
WHERE (dbo.City.ID_Country > 2)
GO
EXEC sp_helptext N'TASK.dbo.View_1'
```

SQLQuery3.sql - W1...\NesterovaAS (52))* | W12-416-37.TASK - dbo.Country | W12-416-37.TASK - dbo.City

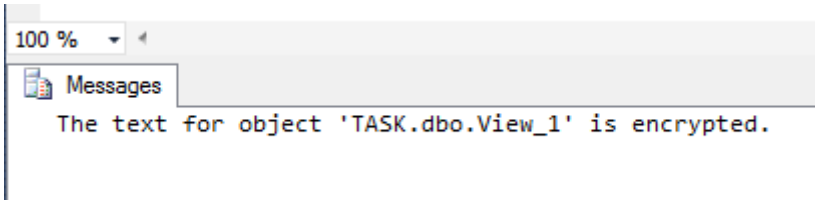
```
USE [TASK]
GO
SELECT dbo.City.ID AS Expr2, dbo.City.Name AS Expr3, dbo.City.ID_Country AS Expr4, dbo.Count
FROM  dbo.City, dbo.Country
WHERE (dbo.City.ID_Country = dbo.Country.ID)
GO
EXEC sp_helptext N'TASK.dbo.View_1'
```

100 %

Results | Messages

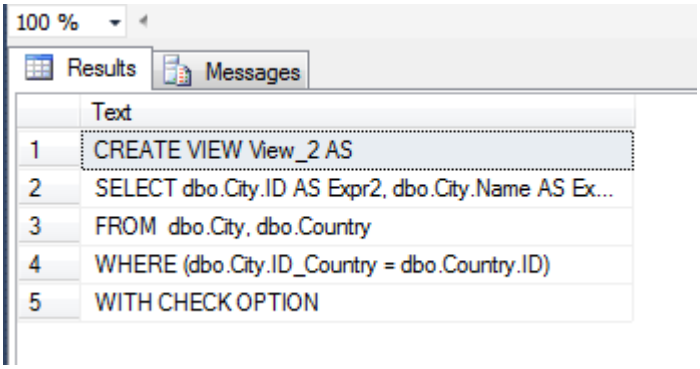
	Expr2	Expr3	Expr4	Expr5
1	1	Саратов	1	Россия
2	2	Москва	1	Россия
3	3	Пекин	3	Китай
4	4	Киев	2	Украина
5	5	Севастополь	1	Россия
6	8	Хельсинки	4	Финляндия
7	9	Котка	4	Финляндия
8	10	Барселона	5	Испания
9	11	Мадрид	5	Испания
10	12	Валенсия	5	Испания
11	13	Рим	6	Италия
12	14	Милан	6	Италия
13	15	Флоренция	6	Италия
14	16	Венеция	6	Италия
15	17	Неаполь	6	Италия
16	18	Париж	7	Франция
17	19	Канны	7	Франция
18	20	Патайа	8	Тайланд
19	21	Бангкок	8	Тайланд

```
USE [TASK]
GO
ALTER VIEW View_1 WITH ENCRYPTION AS
SELECT dbo.City.ID AS Expr2, dbo.City.Name AS Expr3, dbo.City.ID_Country AS Expr4,
dbo.Country.Name AS Expr5
FROM  dbo.City INNER JOIN dbo.Country ON dbo.City.ID = dbo.Country.ID
WHERE (dbo.City.ID_Country = dbo.Country.ID)
GO
EXEC sp_helptext N'TASK.dbo.View_1'
```



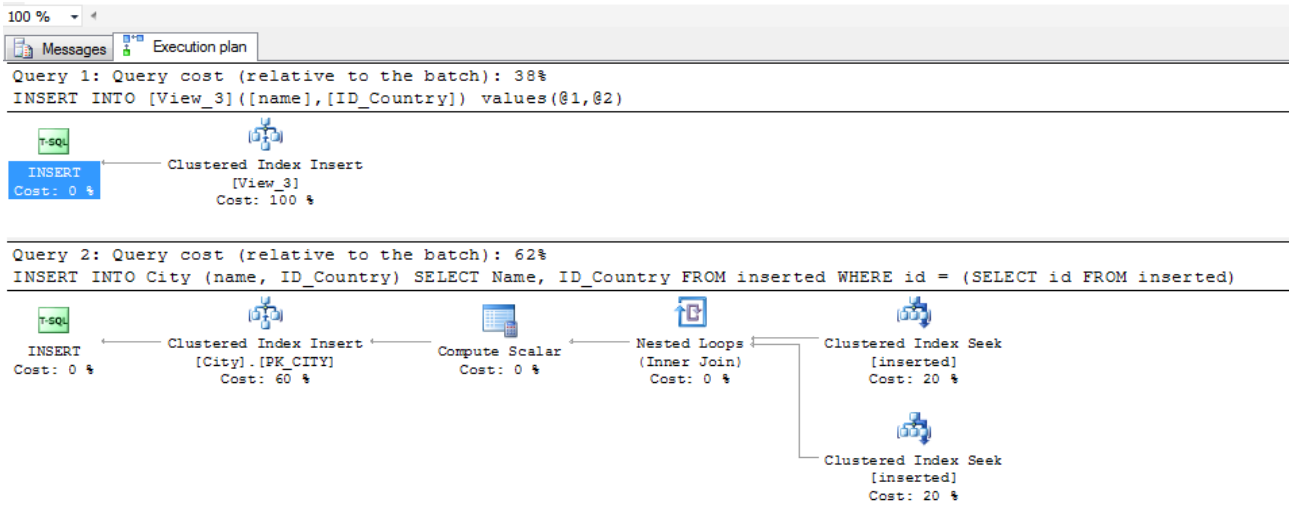
2. Создание обновляемого представления

```
USE [TASK]
GO
CREATE VIEW View_2 AS
SELECT dbo.City.ID AS Expr2, dbo.City.Name AS Expr3, dbo.City.ID_Country AS Expr4,
dbo.Country.Name AS Expr5
FROM  dbo.City, dbo.Country
WHERE (dbo.City.ID_Country = dbo.Country.ID)
WITH CHECK OPTION
GO
EXEC sp_helptext N'TASK.dbo.View_2'
```

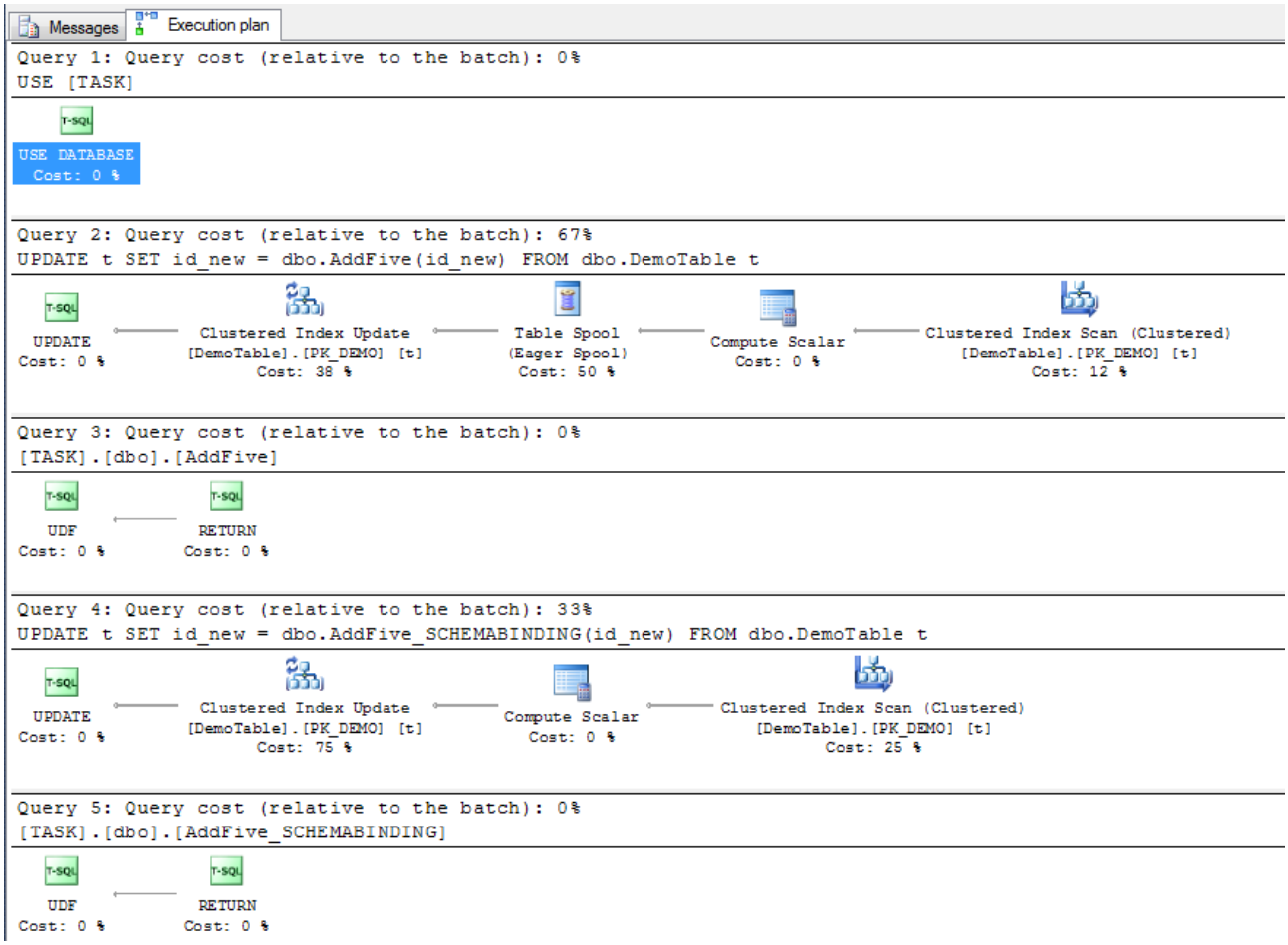



```
USE [TASK]
GO
CREATE VIEW View_3 AS
SELECT dbo.City.ID, dbo.City.ID_Country AS ID_Country, dbo.Country.ID AS country_id2,
dbo.Country.Name AS name
FROM dbo.City, dbo.Country
WHERE (dbo.City.ID_Country = dbo.Country.ID)
GO
CREATE TRIGGER Trigger_For_View3 on View_3
INSTEAD OF INSERT
AS
BEGIN
INSERT INTO City (name, ID_Country)
SELECT Name, ID_Country
FROM inserted WHERE id = (SELECT id FROM inserted)
END;
```

```
GO
INSERT INTO View_3 ([name], [ID_Country]) VALUES ('Калининград', '1')
```



3. Создание индексированного представления

```
USE [TASK]
GO
SET NUMERIC_ROUNDABORT OFF
SET ANSI_PADDING, ANSI_WARNINGS, CONCAT_NULL_YIELDS_NULL, ARITHABORT, QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[DemoTable]
(
[id] int NOT NULL,
[txt] varchar(50) NULL,
[txt2] varchar(50) NULL,
[id_new] int NOT NULL
)
GO
ALTER TABLE [DemoTable] ADD CONSTRAINT [PK_DEMO] PRIMARY KEY CLUSTERED ([id] ASC)
GO
INSERT INTO dbo.DemoTable (id, txt, txt2, id_new)
VALUES
(1, '1', '2', 2),
(2, '12', '24', 2),
(3, '16', '32', 3),
(4, '110', '220', 4),
(5, '112', '224', 5)
GO
CREATE FUNCTION dbo.AddFive(@n int)
RETURNS int
BEGIN
RETURN @n + 5
END
GO
CREATE FUNCTION dbo.AddFive_SCHEMABINDING(@n int)
RETURNS int
WITH SCHEMABINDING
BEGIN
RETURN @n + 5
END
```

```
USE [TASK]
GO
GO
UPDATE t
SET id_new = dbo.AddFive(id_new)
FROM dbo.DemoTable t
GO
UPDATE t
SET id_new = dbo.AddFive_SCHEMABINDING(id_new)
FROM dbo.DemoTable t
```