```
/* FA3A */
CREATE DATABASE [TASK]
ON PRIMARY
(NAME = N'TASK', FILENAME = N'D:\task9\task9.mdf', SIZE = 51200
KB, FILEGROWTH = 10%),
FILEGROUP GENERAL
(NAME = 'stable', FILENAME = 'D:\task9\stable.ndf', SIZE = 1 MB,
FILEGROWTH = 10\%)
FILEGROUP ONLYREAD
(NAME = 'read only', FILENAME = 'D:\task9\read only.ndf', SIZE =
1 MB, FILEGROWTH = 10%)
LOG ON
(NAME = N'TASK log', FILENAME = N'D:\task9\TASK log.ldf', SIZE =
10240 KB, FILEGROWTH = 10%)
COLLATE Cyrillic General 100 CI AI
GO
ALTER DATABASE [TASK] SET RECOVERY SIMPLE WITH NO WAIT;
ALTER DATABASE [TASK] SET AUTO SHRINK OFF
GO
/* TAБЛИЦЫ */
CREATE TABLE [Users] (
     ID int NOT NULL,
     Name varchar(100) NOT NULL,
     Date date NOT NULL,
     Address varchar(100) NOT NULL,
     ID Country int NOT NULL,
     ID City int NOT NULL,
     Link varchar(50) NOT NULL,
     Email varchar(50) NOT NULL,
     Raiting float(3) NOT NULL,
     Count Followers int NOT NULL,
     Count Likes int NOT NULL,
     Count Posts int NOT NULL,
  CONSTRAINT [PK USERS] PRIMARY KEY CLUSTERED
  [ID] ASC
```

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) WITH (IGNORE DUP KEY = OFF)
)
GO
CREATE TABLE [Themes] (
     ID int NOT NULL,
    Name varchar(255) NOT NULL,
     Description text NOT NULL,
  CONSTRAINT [PK THEMES] PRIMARY KEY CLUSTERED
  [ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
)
GO
CREATE TABLE [Comments] (
     ID int NOT NULL.
     ID User int NOT NULL,
     Date datetime NOT NULL,
     Comment text NOT NULL,
  CONSTRAINT [PK COMMENTS] PRIMARY KEY CLUSTERED
  [ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
GO
CREATE TABLE [Followers] (
     ID int NOT NULL,
     ID User int NOT NULL,
     ID Followers int NOT NULL,
  CONSTRAINT [PK FOLLOWERS] PRIMARY KEY CLUSTERED
  [ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
GO
CREATE TABLE [Post] (
     ID int NOT NULL,
```

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ID Users int NOT NULL,
     ID Themes int NOT NULL,
     Name varchar(100) NOT NULL,
     Description text NOT NULL,
     Data datetime NOT NULL,
  CONSTRAINT [PK POST] PRIMARY KEY CLUSTERED
  [ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
)
GO
CREATE TABLE [City] (
     ID int NOT NULL,
     Name varchar(100) NOT NULL,
     ID Country int NOT NULL,
  CONSTRAINT [PK CITY] PRIMARY KEY CLUSTERED
  [ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
GO
CREATE TABLE [Country] (
     ID int NOT NULL,
     Name varchar(100) NOT NULL,
  CONSTRAINT [PK COUNTRY] PRIMARY KEY CLUSTERED
  [ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
)
GO
CREATE TABLE [Rating] (
     ID int NOT NULL,
     ID Users int NOT NULL,
     ID FromWho int NOT NULL,
     Mark int NOT NULL,
  CONSTRAINT [PK RATING] PRIMARY KEY CLUSTERED
```

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[ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
)
GO
CREATE TABLE [Likes] (
     ID int NOT NULL,
     ID Users int NOT NULL,
     ID FromWho int NOT NULL,
     ID Post int NOT NULL,
  CONSTRAINT [PK LIKES] PRIMARY KEY CLUSTERED
  [ID] ASC
  ) WITH (IGNORE DUP KEY = OFF)
)
GO
ALTER TABLE [Users] WITH CHECK ADD CONSTRAINT [Users fk0]
FOREIGN KEY ([ID Country]) REFERENCES [Country]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Users] CHECK CONSTRAINT [Users fk0]
ALTER TABLE [Users] WITH CHECK ADD CONSTRAINT [Users fk1]
FOREIGN KEY ([ID City]) REFERENCES [City]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Users] CHECK CONSTRAINT [Users fk1]
GO
ALTER TABLE [Comments] WITH CHECK ADD CONSTRAINT [Comments fk0]
FOREIGN KEY ([ID User]) REFERENCES [Users]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Comments] CHECK CONSTRAINT [Comments fk0]
GO
ALTER TABLE [Followers] WITH CHECK ADD CONSTRAINT
[Followers fk0] FOREIGN KEY ([ID User]) REFERENCES [Users]([ID])
```

```
ON UPDATE CASCADE
ALTER TABLE [Followers] CHECK CONSTRAINT [Followers fk0]
GO
ALTER TABLE [Followers] WITH CHECK ADD CONSTRAINT
[Followers fk1] FOREIGN KEY ([ID Followers]) REFERENCES [Users]
([ID])
ON UPDATE CASCADE
ALTER TABLE [Followers] CHECK CONSTRAINT [Followers fk1]
GO
ALTER TABLE [Post] WITH CHECK ADD CONSTRAINT [Post fk0] FOREIGN
KEY ([ID Users]) REFERENCES [Users]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Post] CHECK CONSTRAINT [Post fk0]
ALTER TABLE [Post] WITH CHECK ADD CONSTRAINT [Post fk1] FOREIGN
KEY ([ID Themes]) REFERENCES [Themes]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Post] CHECK CONSTRAINT [Post fk1]
GO
ALTER TABLE [City] WITH CHECK ADD CONSTRAINT [City fk0] FOREIGN
KEY ([ID Country]) REFERENCES [Country]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [City] CHECK CONSTRAINT [City fk0]
GO
ALTER TABLE [Rating] WITH CHECK ADD CONSTRAINT [Rating fk0]
FOREIGN KEY ([ID Users]) REFERENCES [Users]([ID])
ON UPDATE CASCADE
ALTER TABLE [Rating] CHECK CONSTRAINT [Rating fk0]
GO
```

```
ALTER TABLE [Rating] WITH CHECK ADD CONSTRAINT [Rating fk1]
FOREIGN KEY ([ID FromWho]) REFERENCES [Users]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Rating] CHECK CONSTRAINT [Rating fk1]
GO
ALTER TABLE [Likes] WITH CHECK ADD CONSTRAINT [Likes fk0]
FOREIGN KEY ([ID Users]) REFERENCES [Users]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Likes] CHECK CONSTRAINT [Likes fk0]
ALTER TABLE [Likes] WITH CHECK ADD CONSTRAINT [Likes fk1]
FOREIGN KEY ([ID FromWho]) REFERENCES [Users]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Likes] CHECK CONSTRAINT [Likes fk1]
GO
ALTER TABLE [Likes] WITH CHECK ADD CONSTRAINT [Likes fk2]
FOREIGN KEY ([ID Post]) REFERENCES [Post]([ID])
ON UPDATE CASCADE
GO
ALTER TABLE [Likes] CHECK CONSTRAINT [Likes fk2]
GO
/* FPYNNA READ ONLY */
ALTER TABLE [City] DROP CONSTRAINT PK CITY WITH (MOVE TO
read only)
GO
ALTER TABLE [Country] DROP CONSTRAINT PK Country WITH (MOVE TO
read only)
GO
ALTER DATABASE TASK MODIFY FILEGROUP [read only] READ ONLY
/* CEHKЦИОНИРОВАНИЕ */
```

```
CREATE PARTITION FUNCTION PartFunctionFactSales Date (bigint) AS
RANGE RIGHT FOR VALUES (20100101)
CREATE PARTITION SCHEME PartSchFactSales Date AS PARTITION
PartFunctionFactSales Date TO ([OLDGENERAL], [GENERAL],
[GENERAL])
/* METOД СКОЛЬЗЯЩЕГО ОКНА */
CREATE PARTITION FUNCTION PartFunctionFactSales Date (bigint) AS
RANGE RIGHT FOR VALUES (20100101)
CREATE PARTITION SCHEME PartSchFactSales Date AS PARTITION
PartFunctionFactSales Date TO ([OLDGENERAL], [GENERAL],
[GENERAL])
CREATE PROCEDURE PR SLIDINGWINDOW
AS
DECLARE @DAYFORPART ORDERS VARCHAR(8)
DECLARE @DAYFORPART ARH VARCHAR(8)
SET @DAYFORPART ORDERS = CAST((SELECT TOP 1 [value] FROM
sys.partition range values
WHERE function id = (SELECT function id
FROM sys.partition functions
WHERE name = 'PartFunctionFactSales Date')
ORDER BY boundary id DESC) AS VARCHAR(8))
SET @DAYFORPART ARH = CAST((SELECT TOP 1 [value] FROM
sys.partition range values
WHERE function id = (SELECT function id
FROM sys.partition functions
WHERE name = 'PartFunctionFactSales Date')
ORDER BY boundary id ASC) AS VARCHAR(8))
DECLARE @DAY DT DATE
SET @DAY DT = DATEADD(YEAR, 1, CAST(@DAYFORPART ORDERS AS DATE))
DECLARE @DAY ARH DATE
SET @DAY ARH = DATEADD(YEAR, 1, CAST(@DAYFORPART ARH AS DATE))
ALTER PARTITION SCHEME PARTSCH ORDERS DATE
NEXT USED [Frequently]
ALTER PARTITION SCHEME PARTSCH ARH DATE
NEXT USED [Fast Growing]
ALTER PARTITION FUNCTION PARTUNC DATE()
SPLIT RANGE (CAST(CONVERT(VARCHAR(8), @DAY DT, 112) AS INT))
```

```
ALTER PARTITION FUNCTION PARTUNC_ARH()

SPLIT RANGE (CAST(CONVERT(VARCHAR(8),@DAY ARH,112) AS INT))
```