T-SQL

--- 1 ---

use tempdb

GO

CREATE TABLE Sales2009

( saleID int identity(1,1) NOT NULL,

SaleDate date NOT NULL,

Ammount decimal(8,2) NOT NULL

)

GO

CREATE TABLE Sales2010

( saleID int identity(1,1) NOT NULL,

SaleDate date NOT NULL,

Ammount decimal(8,2) NOT NULL

)

GO

CREATE TABLE Sales2011

( saleID int identity(1,1) NOT NULL,

SaleDate date NOT NULL,

Ammount decimal(8,2) NOT NULL

)

GO

CREATE TABLE Sales2012

( saleID int identity(1,1) NOT NULL,

SaleDate date NOT NULL,

Ammount decimal(8,2) NOT NULL

)

--- 2 ---

declare @p int = 1

while @p <=1000

Begin

declare @date date,

@Ammount int = 0

--- insert into 2009

set @date = DATEADD(day, (ABS(CHECKSUM(NEWID())) % (365)), '2009-01-01')

set @Ammount = LEFT(ABS(CHECKSUM(NEWID())), 5)

insert into Sales2009

values (@date, @Ammount)

--- insert into 2010

set @date = DATEADD(day, (ABS(CHECKSUM(NEWID())) % (365)), '2010-01-01')

set @Ammount = LEFT(ABS(CHECKSUM(NEWID())), 5)

insert into Sales2010

values (@date, @Ammount)

--- insert into 2011

set @date = DATEADD(day, (ABS(CHECKSUM(NEWID())) % (365)), '2011-01-01')

set @Ammount = LEFT(ABS(CHECKSUM(NEWID())), 5)

insert into Sales2011

values (@date, @Ammount)

--- insert into 2012

set @date = DATEADD(day, (ABS(CHECKSUM(NEWID())) % (365)), '2012-01-01')

set @Ammount = LEFT(ABS(CHECKSUM(NEWID())), 5)

insert into Sales2012

values (@date, @Ammount)

set @p = @p+1

END

--- 3 ---

GO

declare @date date,

@tablename nvarchar(50),

@SQL nvarchar(MAX)

select @date = DATEADD(day, (ABS(CHECKSUM(NEWID())) % (datediff(dd, '2009-01-01', '2012-12-31'))), '2009-01-01')

select @tablename = concat('Sales', YEAR(@date))

select @SQL = concat ('select \* from ', @tablename, ' where SaleDate = ''', @date, '''')

exec (@SQL)

--- 4 ---

use tempdb

GO

CREATE TABLE dbo.Books

(BookID int not null,

AuthorFirstName nvarchar(50) not null,

AuthorLastName nvarchar(50) not null,

PublishYear int not null,

BookName nvarchar(100) not null,

BookLanguage nvarchar(50) not null

)

GO

CREATE TABLE dbo.Categories

(CategoryID int not null,

CategoryName nvarchar(50) not null,

)

GO

CREATE TABLE dbo.BooksCategories

(BookID int not null,

CategoryID nvarchar(50) not null,

)

---- 5 ---

insert into Books

values

(1, 'Leo', 'Tolstoy', 1877, 'Anna Karenina', 'Russian'),

(2, 'Gustave', 'Flaubert', 1856, 'Madame Bovary', 'French'),

(3, 'Mark', 'Twain', 1884, 'Adventures of Huckleberry Finn', 'English'),

(4, 'Charles', 'Dickens', 1860, 'Great Expectations', 'English'),

(5, 'Ralph', 'Ellison', 1952, 'Invisible Man', 'English')

insert into Categories

values

(1, 'Children'),

(2, 'Drama'),

(3, 'Science fiction'),

(4, 'Romance'),

(5, 'Mystery')

insert into BooksCategories

values

(1,2),

(1,4),

(3,1),

(2,2),

(4,2),

(5,3),

(5,5)

--- 6 ---

-- h-i

DECLARE

@BookName nvarchar(100) = 'Great Expectations',

@AuthorFirstName nvarchar(50) = 'Charles',

@AuthorLastName nvarchar(50) = 'Dickens',

@PublishYear int = 1860,

@Language nvarchar(50) = 'English',

@Category nvarchar(50) = 'Drama'

--j

/\* I didn't understand the question \*/