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/*
 * ER/Studio Data Architect SQL Code Generation
 * Project :      NYCFoodInspectionDimensional.DM1
 *
 * Date Created : Monday, February 13, 2023 21:10:24
 * Target DBMS : Microsoft SQL Server 2019
 */

USE NYC_Food_Inspection
go
/*
 * TABLE: Dim_Date
 */

CREATE TABLE Dim_Date(
    Date_SK                int                NOT NULL,
    DayNumberOfWeek        int                NULL,
    DayNumberOfMonth        int                NULL,
    MonthName               nvarchar(15)      NULL,
    MonthNumberOfYear        int                NULL,
    DayNameOfWeek           int                NULL,
    FullDateAK              date              NULL,
    DayNumberOfYear         int                NULL,
    CONSTRAINT PK5 PRIMARY KEY NONCLUSTERED (Date_SK)
)

go

IF OBJECT_ID('Dim_Date') IS NOT NULL
    PRINT '<<< CREATED TABLE Dim_Date >>>'
ELSE
    PRINT '<<< FAILED CREATING TABLE Dim_Date >>>'
go

/*
 * TABLE: Dim_Geography
 */

CREATE TABLE Dim_Geography(
    Geography_SK            int                IDENTITY(1,1),
    BORO                    nvarchar(20)      NOT NULL,
    Street                  nvarchar(50)      NOT NULL,
    ZipCode                 int                NULL,
    Latitude                numeric(19, 18)   NULL,
    Longitude               numeric(19, 10)   NULL,
    [Community Board]       int                NULL,
    [Council District]      int                NULL,
    [Neighbourhood Tribunal Area] nvarchar(20) NULL,
    [Borough block number]  int                NULL,
    [Building Number]       int                NULL,
    CONSTRAINT PK4 PRIMARY KEY NONCLUSTERED (Geography_SK)
)

go

IF OBJECT_ID('Dim_Geography') IS NOT NULL
    PRINT '<<< CREATED TABLE Dim_Geography >>>'
ELSE
    PRINT '<<< FAILED CREATING TABLE Dim_Geography >>>'
go

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/*
 * TABLE: Dim_Restuarant
 */

CREATE TABLE Dim_Restuarant(
    Restuarant_SK          int          IDENTITY(1,1),
    CAMIS                  int          NOT NULL,
    [Restuarant Name]      nvarchar(100) NULL,
    Phone_Number           int          NULL,
    [Cuisine Description]  nvarchar(100) NULL,
    CONSTRAINT PK2 PRIMARY KEY NONCLUSTERED (Restuarant_SK)
)

go

IF OBJECT_ID('Dim_Restuarant') IS NOT NULL
    PRINT '<<< CREATED TABLE Dim_Restuarant >>>'
ELSE
    PRINT '<<< FAILED CREATING TABLE Dim_Restuarant >>>'
go

/*
 * TABLE: Dim_Restuarant_Violation
 */

CREATE TABLE Dim_Restuarant_Violation(
    Restuarant_SK          int          NOT NULL,
    Violation_SK           int          NOT NULL,
    CONSTRAINT PK6 PRIMARY KEY NONCLUSTERED (Restuarant_SK, Violation_SK)
)

go

IF OBJECT_ID('Dim_Restuarant_Violation') IS NOT NULL
    PRINT '<<< CREATED TABLE Dim_Restuarant_Violation >>>'
ELSE
    PRINT '<<< FAILED CREATING TABLE Dim_Restuarant_Violation >>>'
go

/*
 * TABLE: Dim_voilation
 */

CREATE TABLE Dim_voilation(
    Violation_SK           int          IDENTITY(1,1),
    [Violation Code]       nvarchar(10)  NULL,
    [Violation Description] nvarchar(1000) NULL,
    CONSTRAINT PK3 PRIMARY KEY NONCLUSTERED (Violation_SK)
)

go

IF OBJECT_ID('Dim_voilation') IS NOT NULL
    PRINT '<<< CREATED TABLE Dim_voilation >>>'
ELSE
    PRINT '<<< FAILED CREATING TABLE Dim_voilation >>>'
go

/*
 * TABLE: Fact_Inspection

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*/

CREATE TABLE Fact_Inspection(
    Inspection_SK          int          IDENTITY(1,1),
    Violation_SK           int          NOT NULL,
    Inspection_Date_SK     int          NOT NULL,
    Grade_Date_SK          int          NOT NULL,
    Date_SK                int          NOT NULL,
    Restuarant_SK          int          NULL,
    Geography_SK           int          NULL,
    [Critical Flag]        nvarchar(20) NOT NULL,
    Grade                  nvarchar(10) NULL,
    Action                 nvarchar(200) NULL,
    [Inspection Type]      nvarchar(200) NULL,
    [Score After Inspection] int        NULL,
    [Is Inspection Done ?] char(10)     NULL,
    CONSTRAINT PK1 PRIMARY KEY NONCLUSTERED (Inspection_SK, Violation_SK,
Inspection_Date_SK, Grade_Date_SK, Date_SK)
)

go

IF OBJECT_ID('Fact_Inspection') IS NOT NULL
    PRINT '<<< CREATED TABLE Fact_Inspection >>>'
ELSE
    PRINT '<<< FAILED CREATING TABLE Fact_Inspection >>>'
go

/*
* TABLE: Dim_Restuarant_Violation
*/

ALTER TABLE Dim_Restuarant_Violation ADD CONSTRAINT RefDim_Restuarant9
    FOREIGN KEY (Restuarant_SK)
    REFERENCES Dim_Restuarant(Restuarant_SK)
go

ALTER TABLE Dim_Restuarant_Violation ADD CONSTRAINT RefDim_voilation10
    FOREIGN KEY (Violation_SK)
    REFERENCES Dim_voilation(Violation_SK)
go

/*
* TABLE: Fact_Inspection
*/

ALTER TABLE Fact_Inspection ADD CONSTRAINT RefDim_Geography2
    FOREIGN KEY (Geography_SK)
    REFERENCES Dim_Geography(Geography_SK)
go

ALTER TABLE Fact_Inspection ADD CONSTRAINT RefDim_Restuarant3
    FOREIGN KEY (Restuarant_SK)
    REFERENCES Dim_Restuarant(Restuarant_SK)
go

ALTER TABLE Fact_Inspection ADD CONSTRAINT RefDim_voilation4
    FOREIGN KEY (Violation_SK)
    REFERENCES Dim_voilation(Violation_SK)
go

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ALTER TABLE Fact_Inspection ADD CONSTRAINT RefDim_Date6
    FOREIGN KEY (Inspection_Date_SK)
    REFERENCES Dim_Date(Date_SK)
go
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ALTER TABLE Fact_Inspection ADD CONSTRAINT RefDim_Date7
    FOREIGN KEY (Grade_Date_SK)
    REFERENCES Dim_Date(Date_SK)
go
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ALTER TABLE Fact_Inspection ADD CONSTRAINT RefDim_Date8
    FOREIGN KEY (Date_SK)
    REFERENCES Dim_Date(Date_SK)
go
```