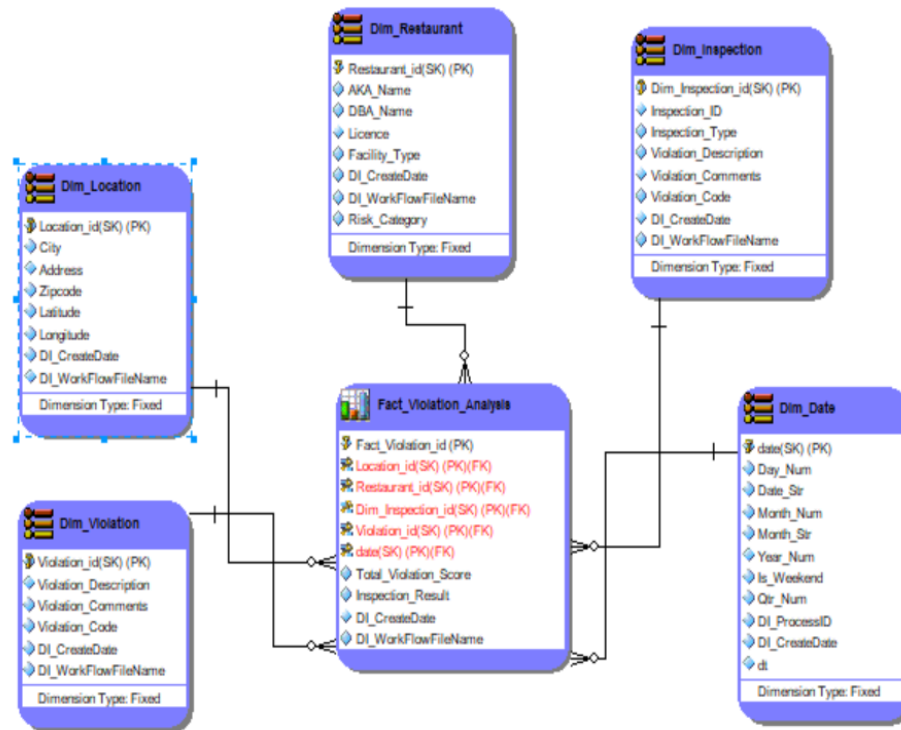


PART 2

ER/Studio :



DDL scripts:

/*

* ER/Studio Data Architect SQL Code Generation

* Project : Dimensional_Model__Project1.DM1

*

* Date Created : Thursday, February 22, 2024 20:18:14

* Target DBMS : Microsoft SQL Server 2019

```
*/
```

```
CREATE TABLE Dim_Date(  
    dateSK          int          NOT NULL,  
    Day_Num         int          NOT NULL,  
    Date_Str        varchar(100)  NULL,  
    Month_Num       int          NOT NULL,  
    Month_Str       varchar(100)  NULL,  
    Year_Num        int          NULL,  
    Is_Weekend      varchar(100)  NULL,  
    Qtr_Num         varchar(10)   NULL,  
    DI_CreateDate   date          NULL,  
    DI_ProcessID    varchar(100)  NULL,  
    dt              date          NULL,  
    CONSTRAINT PK2_1_1_1_2 PRIMARY KEY NONCLUSTERED  
(dateSK)  
)
```

```
go
```

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

```
/*
```

```
* TABLE: Dim_Inspection
```

```
*/
```

```
CREATE TABLE Dim_Inspection(  
    Dim_Inspection_id  int          NOT NULL,  
    Inspection_ID      varchar(max)  NOT NULL,
```

```

Inspection_Type    varchar(100)  NULL,
Violation_Description  varchar(max)    NULL,
Violation_Comments    varchar(max)    NULL,
Violation_Code        varchar(100)  NULL,
DI_CreateDate        date           NULL,
DI_WorkFlowFileName  varchar(100)  NULL,
CONSTRAINT PK2_1_1 PRIMARY KEY NONCLUSTERED
(Dim_Inspection_id)
)

```

go

```

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

```

```

/*
* TABLE: Dim_Location
*/

```

```

CREATE TABLE Dim_Location(
    Location_id        int           NOT NULL,
    City  VARCHAR(100) NULL,
    Address            varchar(255)  NULL,
    Zipcode            int           NULL,
    Latitude            VARCHAR(100) NULL,
    Longitude            VARCHAR(100) NULL,
    DI_CreateDate        date           NULL,
    DI_WorkFlowFileName  varchar(100)  NULL,
    CONSTRAINT PK2 PRIMARY KEY NONCLUSTERED (Location_id)
)

```

go

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

/*

* TABLE: Dim_Restaurant

*/

```
CREATE TABLE Dim_Restaurant(
    Restaurant_id      int      NOT NULL,
    Risk               varchar(100)  NULL,
    AKA_Name            varchar(255)  NULL,
    DBA_Name            varchar(100)  NULL,
    Licence             int      NULL,
    Facility_Type       varchar(100)  NULL,
    DI_CreateDate       date      NULL,
    DI_WorkflowFileName varchar(100)  NULL,
    CONSTRAINT PK2_1 PRIMARY KEY NONCLUSTERED
(Restaurant_id)
)
```

go

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

```

CREATE TABLE Fact_Violation_Analysis(
    Fact_Violation_id    int        NOT NULL,
    Location_id          int        NOT NULL,
    Restaurant_id        int        NOT NULL,
    Dim_Inspection_id    int        NOT NULL,
    dateSK               int        NOT NULL,
    Inspection_Result    varchar(100) NULL,
    Total_Violation_Score int        NULL,
    DI_CreateDate        date        NULL,
    DI_WorkflowFileName  varchar(100) NULL,
    CONSTRAINT PK2_1_1_1_1 PRIMARY KEY NONCLUSTERED
(Fact_Violation_id, Location_id, Restaurant_id, Dim_Inspection_id,
dateSK)
)

```

go

```

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

```

```

/*
* TABLE: Fact_Violation_Analysis
*/

```

```

ALTER TABLE Fact_Violation_Analysis ADD CONSTRAINT
RefDim_Location1
    FOREIGN KEY (Location_id)
    REFERENCES Dim_Location(Location_id)
go

```

```
ALTER TABLE Fact_Violation_Analysis ADD CONSTRAINT  
RefDim_Restaurant3  
    FOREIGN KEY (Restaurant_id)  
    REFERENCES Dim_Restaurant(Restaurant_id)  
go
```

```
ALTER TABLE Fact_Violation_Analysis ADD CONSTRAINT  
RefDim_Inspection5  
    FOREIGN KEY (Dim_Inspection_id)  
    REFERENCES Dim_Inspection(Dim_Inspection_id)  
go
```

```
ALTER TABLE Fact_Violation_Analysis ADD CONSTRAINT RefDim_Date7  
    FOREIGN KEY (dateSK)  
    REFERENCES Dim_Date(dateSK)  
go
```