SSAS Tabular Modeling Chapter 4 Code

Create the Major Cause of Accident Reference Data table.

CREATE TABLE [dbo].[MAJCSE\_T](

[MAJCSE] [int] NULL,

[MAJOR\_CAUSE] [varchar](50) NULL

) ON [PRIMARY]

Then populate the table with data.

INSERT INTO MAJCSE\_T

VALUES

(20, 'Overall/rollover'),

(21, 'Jackknife'),

(31, 'Animal'),

(32, 'Non-motorist'),

(33, 'Vehicle in Traffic'),

(35, 'Parked motor vehicle'),

(37, 'Railway vehicle'),

(40, 'Collision with bridge'),

(41, 'Collision with bridge pier'),

(43, 'Collision with curb'),

(44, 'Collision with ditch'),

(47, 'Collision culvert'),

(48, 'Collision Guardrail - face'),

(50, 'Collision traffic barrier'),

(53, 'impact with Attenuator'),

(54, 'Collision with utility pole'),

(55, 'Collision with traffic sign'),

(59, 'Collision with mailbox'),

(60, 'Collision with Tree'),

(70, 'Fire'),

(71, 'Immersion'),

(72, 'Hit and Run'),

(99, 'Unknown')

Create the table to store the lighting conditions at the time of the crash.

CREATE TABLE [dbo].[LIGHT\_T](

[LIGHT] [int] NULL,

[LIGHT\_CONDITION] [varchar](30) NULL

) ON [PRIMARY]

Now populate the data that shows the descriptions for the codes.

INSERT INTO LIGHT\_T

VALUES

(1, 'Daylight'),

(2, 'Dusk'),

(3, 'Dawn'),

(4, 'Dark, roadway lighted'),

(5, 'Dark, roadway not lighted'),

(6, 'Dark, unknown lighting'),

(9, 'Unknown')

Create the table to store the road conditions.

CREATE TABLE [dbo].[CSRFCND\_T](

[CSRFCND] [int] NULL,

[SURFACE\_CONDITION] [varchar](50) NULL

) ON [PRIMARY]

Now populate the road condition descriptions.

INSERT INTO CSRFCND\_T

VALUES

(1, 'Dry'),

(2, 'Wet'),

(3, 'Ice'),

(4, 'Snow'),

(5, 'Slush'),

(6, 'Sand, Mud'),

(7, 'Water'),

(99, 'Unknown')

Finally create the weather table.

CREATE TABLE [dbo].[WEATHER\_T](

[WEATHER] [int] NULL,

[WEATHER\_CONDITION] [varchar](30) NULL

) ON [PRIMARY]

Then populate the weather condition descriptions.

INSERT INTO WEATHER\_T

VALUES

(1, 'Clear'),

(2, 'Partly Cloudy'),

(3, 'Cloudy'),

(5, 'Mist'),

(6, 'Rain'),

(7, 'Sleet, hail, freezing rain'),

(9, 'Severe winds'),

(10, 'Blowing Sand'),

(99, 'Unknown')

Sum\_of\_Fatalities:=SUM(Crash\_Data[FATALITIES])

FILTER(MasterCalendar\_T, MasterCalendar\_T[Date]>=DATEADD(MasterCalendar\_T[Date],6,YEAR))

Last\_Year\_Fatalities:=CALCULATE(SUM(Crash\_Data[FATALITIES]),DATEADD(MasterCalendar\_T[Date],-1, YEAR))