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--AutoGenerated with SQL ManagmentStudio

--DimAccidentReason

CREATE TABLE [dbo].[DimCrashDetails](

[TowingArticulation] [nvarchar](100) NOT NULL,

[HitObjectInCarriageway] [nvarchar](100) NOT NULL,

[CrashDetailsKey] [bigint] IDENTITY(1,1) NOT NULL,

[JunctionLocation] [nvarchar](100) NOT NULL,

[VehicleLeavingCarriageway] [nvarchar](100) NOT NULL,

[SkiddingOverturning] [nvarchar](100) NOT NULL,

[PointOfImpact] [nvarchar](100) NOT NULL,

[HitObjectOffCarriageway] [nvarchar](100) NOT NULL,

[VehicleManoeuvre] [nvarchar](100) NOT NULL,

PRIMARY KEY CLUSTERED

(

[CrashDetailsKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

--DimDriverDetails

CREATE TABLE [dbo].[DimDriverDetails](

[DriverJourneyPurpose] [nvarchar](100) NOT NULL,

[DriverGender] [nvarchar](100) NOT NULL,

[DriverDetailsKey] [bigint] IDENTITY(1,1) NOT NULL,

[DriverAgeBand] [nvarchar](100) NOT NULL,

CONSTRAINT [PK\_DimDriverDetails] PRIMARY KEY CLUSTERED

(

[DriverDetailsKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

--DIMVEHICLES

CREATE TABLE [dbo].[DimVehicle](

[Type] [nvarchar](100) NOT NULL,

[VehicleIndex] [int] NOT NULL,

[CrashDetailsKey] [bigint] NOT NULL,

[EngineCapacity] [nvarchar](100) NOT NULL,

[VehicleKey] [bigint] IDENTITY(1,1) NOT NULL,

[VehicleAge] [int] NOT NULL,

[SteeringWheelSide] [nvarchar](100) NOT NULL,

[DriverDetailsKey] [bigint] NOT NULL,

CONSTRAINT [PK\_DimVehicle] PRIMARY KEY CLUSTERED

(

[VehicleKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

ALTER TABLE [dbo].[DimVehicle] ADD CONSTRAINT [FK\_DimVehicle\_DimCrashDetails] FOREIGN KEY([CrashDetailsKey])

REFERENCES [dbo].[DimCrashDetails] ([CrashDetailsKey])

ALTER TABLE [dbo].[DimVehicle] ADD CONSTRAINT [FK\_DimVehicle\_DimDriverDetails] FOREIGN KEY([DriverDetailsKey])

REFERENCES [dbo].[DimDriverDetails] ([DriverDetailsKey])

--DIMCasualty

CREATE TABLE [dbo].[DimCasualty](

[AgeBandOfCasualty] [nvarchar](100) NOT NULL,

[CasualtyIndex] [int] NOT NULL,

[CasualtySeverity] [nvarchar](100) NOT NULL,

[CasualtyClass] [nvarchar](100) NOT NULL,

[CasualtyType] [nvarchar](100) NOT NULL,

[CasualtyKey] [bigint] IDENTITY(1,1) NOT NULL,

[BusPassenger] [nvarchar](100) NOT NULL,

[Gender] [nvarchar](100) NOT NULL,

[CarPassenger] [nvarchar](100) NOT NULL,

CONSTRAINT [PK\_DimCasualty] PRIMARY KEY CLUSTERED

(

[CasualtyKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

--DIM\_ROAD\_CONDITION

CREATE TABLE [dbo].[DimRoadCondition](

[RoadSurfaceKey] [bigint] IDENTITY(1,1) NOT NULL,

[UrbanRuralArea] [nvarchar](100) NOT NULL,

[SpeedLimit] [nvarchar](100) NOT NULL,

[WeatherCondition] [nvarchar](100) NOT NULL,

[RoadSurfaceCondition] [nvarchar](100) NOT NULL,

[SpecialConditionAtSite] [nvarchar](100) NOT NULL,

[SecondRoadClass] [nvarchar](100) NOT NULL,

[RoadType] [nvarchar](100) NOT NULL,

[FirstRoadClass] [nvarchar](100) NOT NULL,

[LightCondition] [nvarchar](100) NOT NULL,

CONSTRAINT [PK\_DimRoadCondition] PRIMARY KEY CLUSTERED

(

[RoadSurfaceKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

--Dim Date

CREATE TABLE [dbo].[DimDate](

[PK\_Date] [datetime] NOT NULL,

[Year] [int] NULL,

[Half\_Year] [int] NULL,

[Month\_Name] [nvarchar](50) NULL,

[Day\_Of\_Year] [int] NULL,

[Month\_Of\_Year] [int] NULL,

[Quarter\_Of\_Year] [int] NULL,

CONSTRAINT [PK\_Time] PRIMARY KEY CLUSTERED

(

[PK\_Date] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

--DimTime

CREATE TABLE [dbo].[DimTime](

[Minute] [bigint] NOT NULL,

[TimeKey] [nvarchar](5) NOT NULL,

[Hour] [bigint] NOT NULL,

[AM/PM] [nvarchar](2) NOT NULL,

[PartOfTheDay] [nvarchar](10) NOT NULL,

CONSTRAINT [PK\_DimTime] PRIMARY KEY CLUSTERED

(

[TimeKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

--FACT ACCIDENT

CREATE TABLE [dbo].[FactAccident](

[TimeKey] [nvarchar](5) NOT NULL,

[DateKey] [datetime] NOT NULL,

[RoadSurfaceKey] [bigint] NOT NULL,

[AccidentIndex] [nvarchar](100) NOT NULL,

[SevereCasualties] [int] DEFAULT -1 NOT NULL,

[FatalCasualties] [int] DEFAULT -1 NOT NULL,

[LightCasualties] [int] DEFAULT -1 NOT NULL,

[VehiclesNumber] [int] DEFAULT -1 NOT NULL

CONSTRAINT [PK\_\_FactAcci\_\_C031595BD633AA97] PRIMARY KEY CLUSTERED

(

[AccidentIndex] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

ALTER TABLE [dbo].[FactAccident] ADD CONSTRAINT [FK\_FactAccident\_DimDate] FOREIGN KEY([DateKey])

REFERENCES [dbo].[DimDate] ([PK\_Date])

ALTER TABLE [dbo].[FactAccident] ADD CONSTRAINT [FK\_FactAccident\_DimRoadCondition] FOREIGN KEY([RoadSurfaceKey])

REFERENCES [dbo].[DimRoadCondition] ([RoadSurfaceKey])

ALTER TABLE [dbo].[FactAccident] ADD CONSTRAINT [FK\_FactAccident\_DimTime] FOREIGN KEY([TimeKey])

REFERENCES [dbo].[DimTime] ([TimeKey])

ALTER TABLE [dbo].[FactAccident] NOCHECK CONSTRAINT [FK\_FactAccident\_DimTime];

--Fact Casualty in an accident

CREATE TABLE [dbo].[FactCasualtyInAccident](

[AccidentIndex] [nvarchar](100) NOT NULL,

[CasualtyKey] [bigint] NOT NULL,

CONSTRAINT [PK\_FactCasualtyInAccident] PRIMARY KEY CLUSTERED

(

[AccidentIndex] ASC,

[CasualtyKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

ALTER TABLE [dbo].[FactCasualtyInAccident] ADD CONSTRAINT [FK\_FactCasualtyInAccident\_DimCasualty] FOREIGN KEY([CasualtyKey])

REFERENCES [dbo].[DimCasualty] ([CasualtyKey])

ALTER TABLE [dbo].[FactCasualtyInAccident] ADD CONSTRAINT [FK\_FactCasualtyInAccident\_FactAccident] FOREIGN KEY([AccidentIndex])

REFERENCES [dbo].[FactAccident] ([AccidentIndex])

--Fact vehicle in an accident

CREATE TABLE [dbo].[FactVehicleInAccident](

[AccidentIndex] [nvarchar](100) NOT NULL,

[VehicleKey] [bigint] NOT NULL,

CONSTRAINT [PK\_FactVehicleInAccident] PRIMARY KEY CLUSTERED

(

[AccidentIndex] ASC,

[VehicleKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

ALTER TABLE [dbo].[FactVehicleInAccident] ADD CONSTRAINT [FK\_FactVehicleInAccident\_DimVehicle] FOREIGN KEY([VehicleKey])

REFERENCES [dbo].[DimVehicle] ([VehicleKey])

ALTER TABLE [dbo].[FactVehicleInAccident] ADD CONSTRAINT [FK\_FactVehicleInAccident\_FactAccident] FOREIGN KEY([AccidentIndex])

REFERENCES [dbo].[FactAccident] ([AccidentIndex])

CREATE TABLE [dbo].[AttributesLookup](

[AllowedAttribute] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_AttributesLookup] PRIMARY KEY CLUSTERED

(

[AllowedAttribute] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

INSERT INTO [dbo].[AttributesLookup]

([AllowedAttribute])

VALUES

('AgeBand'), ('BusPassenger'), ('CarPassenger'), ('CasualtyClass'),('CasualtyType'),

('Gender'),('HitObjectInCarriageway'),('HitObjectOffCarriageway'),('JourneyPurpose'),

('JunctionLocation'),('LightCondition'),('PointOfImpact'),('RoadClass'),('RoadSurfaceCondition'),

('RoadType'),('Severity'),('SkiddingOverturning'),('SpecialConditionAtSite'),('SteeringWheelSide'),

('TowingArticulation'),('UrbanRuralArea'),('VehicleLeavingCarriageway'),('VehicleManoeuvre'),

('VehicleType'),('WeatherCondition')

CREATE TABLE [dbo].[LookupTable](

[LookupType] [nvarchar](50) NOT NULL,

[LookupValue] [nvarchar](100) NULL,

[LookupName] [nvarchar](100) NOT NULL,

[LookupID] [bigint] IDENTITY(1,1) NOT NULL,

CONSTRAINT [PK\_LookupTable] PRIMARY KEY CLUSTERED

(

[LookupID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]



--TEMP TABLES

CREATE TABLE [dbo].[Temp\_Accidents](

[Accident\_Index] [nvarchar](100) NULL,

[Date] [nvarchar](100) NULL,

[Time] [nvarchar](5) NULL,

[Speed\_limit] [nvarchar](100) NULL,

[Road\_Type] [nvarchar](100) NULL,

[2nd\_Road\_Class] [nvarchar](100) NULL,

[Light\_Conditions] [nvarchar](100) NULL,

[Weather\_Conditions] [nvarchar](100) NULL,

[Road\_Surface\_Conditions] [nvarchar](100) NULL,

[Special\_Conditions\_at\_Site] [nvarchar](100) NULL,

[Urban\_or\_Rural\_Area] [nvarchar](100) NULL,

[1st\_Road\_Class] [nvarchar](100) NULL,

[Number\_Of\_Vehicles] [int] NULL,

[Number\_Of\_Casualties] [int] NULL

) ON [PRIMARY]

CREATE TABLE [Temp\_Casualty] (

[Accident\_Index] nvarchar(100),

[Casualty\_Index] [int],

[Casualty\_Class] [nvarchar](100),

[Sex\_of\_Casualty] [nvarchar](100),

[Age\_of\_Casualty] [nvarchar](100),

[Casualty\_Severity] [nvarchar](100),

[Car\_Passenger] [nvarchar](100),

[Bus\_or\_Coach\_Passenger] [nvarchar](100),

[Casualty\_Type] [nvarchar](100)

)

CREATE TABLE [Temp\_Vehicle] (

[Accident\_Index] nvarchar(100),

[Vehicle\_Type] [nvarchar](100),

[Vehicle\_Index] [int],

[Towing\_and\_Articulation] [nvarchar](100),

[Vehicle\_Manoeuvre] [nvarchar](100),

[Junction\_Location] [nvarchar](100),

[Skidding\_and\_Overturning] [nvarchar](100),

[Hit\_Object\_in\_Carriageway] [nvarchar](100),

[Vehicle\_Leaving\_Carriageway] [nvarchar](100),

[Hit\_Object\_off\_Carriageway] [nvarchar](100),

[1st\_Point\_of\_Impact] [nvarchar](100),

[Was\_Vehicle\_Left\_Hand\_Drive?] [nvarchar](100),

[Journey\_Purpose\_of\_Driver] [nvarchar](100),

[Sex\_of\_Driver] [nvarchar](100),

[Age\_Band\_of\_Driver] [nvarchar](100),

[Engine\_Capacity\_(CC)] [nvarchar](100),

[Age\_of\_Vehicle] [int]

)

CREATE TABLE [Temp\_FactCasualtyInAccident](

[Accident\_Index] nvarchar(100),

[CasualtyID] numeric(20,0),

)

CREATE TABLE [Temp\_FactVehicleInAccident] (

[Accident\_Index] nvarchar(100),

[VehicleID] numeric(20,0)

)