```
CREATE TABLE stg_nyc_mv_collision_persons (
        UNIQUE_ID bigint NOT NULL,
                                                                Fct_Crash
        COLLISION ID bigint NOT NULL,
        CRASH DATE datetime NULL,
        CRASH_TIME time NULL,
        PERSON ID varchar(80) NULL,
        PERSON_TYPE varchar(80) NULL,
        PERSON_INJURY varchar(80) NULL,
        VEHICLE ID varchar(80) NULL,
        PERSON_AGE int NULL,
        EJECTION varchar(80) NULL,
        EMOTIONAL_STATUS varchar(80) NULL,
        BODILY_INJURY varchar(80) NULL,
        POSITION_IN_VEHICLE varchar(255) NULL,
        SAFETY_EQUIPMENT varchar(255) NULL,
        PED LOCATION varchar(255) NULL,
        PED_ACTION varchar(255) NULL,
        COMPLAINT varchar(255) NULL,
        PED_ROLE varchar(255) NULL,
        CONTRIBUTING_FACTOR_1 varchar(255) NULL,
        CONTRIBUTING_FACTOR_2 varchar(255) NULL,
        PERSON_SEX varchar(10) NULL,
        DI_PID varchar(20) NULL,
        DI_Create_Date datetime DEFAULT getdate() NULL,
        PRIMARY KEY (UNIQUE_ID)
   );
CREATE TABLE stg_nyc_mv_collision_vehicles (
   UNIQUE_ID bigint NOT NULL,
                                   7 Fct_crash
   COLLISION_ID bigint NOT NULL, -
   CRASH_DATE datetime NULL,
                                                   Dim_Vehicle
   CRASH TIME time NULL,
   VEHICLE_ID varchar(80) NULL,
   STATE_REGISTRATION varchar(80) NULL,
   VEHICLE_TYPE varchar(80) NULL,
   VEHICLE_MAKE varchar(80) NULL,
   VEHICLE_MODEL varchar(80) NULL,
                                                  Dm_Travel_Drecton
   VEHICLE_YEAR varchar(80) NULL,
   TRAVEL_DIRECTION varchar(255) NULL,
                                                    Dim_Driver
   VEHICLE_OCCUPANTS int NULL,
   DRIVER_SEX varchar(80) NULL,
   DRIVER_LICENSE_STATUS varchar(255) NULL,
                                                    Dim_Vehide_Demage
   DRIVER_LICENSE_JURISDICTION varchar(255) NULL,
   PRE_CRASH varchar(255) NULL,
   POINT_OF_IMPACT varchar(255) NULL,
   VEHICLE_DAMAGE varchar(255) NULL,
   VEHICLE DAMAGE 1 varchar(255) NULL,
   VEHICLE_DAMAGE_2 varchar(255) NULL,
   VEHICLE_DAMAGE_3 varchar(255) NULL,
   PUBLIC_PROPERTY_DAMAGE varchar(1024) NULL,
   PUBLIC_PROPERTY_DAMAGE_TYPE varchar(1024) NULL,
   CONTRIBUTING_FACTOR_1 varchar(255) NULL,
   CONTRIBUTING_FACTOR_2 varchar(255) NULL,
   DI PID varchar(20) NULL,
   DI_Create_Date datetime DEFAULT getdate() NOT NULL,
```

```
□ CREATE TABLE stg_nyc_mv_collisions_BigQuery
        COLLISION_ID bigint NOT NULL, -- unique_key
                                            -- timestamp
        collision_dt datetime NULL,
        collision_day date NULL,
                                             -- derive
        collision_time time NULL,
                                             -- derive
        collision_hour int NULL,
                                              -- derive
        collision_dayoftheweek int NULL,
                                                                   Dim Location
                                         -- derive
        borough varchar(40) NULL,
        zip_code varchar(40) NULL,
        off_street_name varchar(40) NULL,
        on_street_name varchar(40) NULL,
        cross_street_name varchar(40) NULL,
        latitude numeric(24,6) NULL,
        longitude numeric(24,6) NULL,
        location varchar(256) NULL,
        contributing_factor_vehicle_1 varchar(256) NULL,
        contributing_factor_vehicle_2 varchar(256) NULL,
        contributing_factor_vehicle_3 varchar(256) NULL,
        contributing_factor_vehicle_4 varchar(256) NULL,
        contributing factor vehicle 5 varchar(256) NULL,
        number_of_cyclist_injured int NULL,
        number_of_cyclist_killed int NULL,
        number_of_motorist_injured int NULL,
        number_of_motorist_killed int NULL,
        number_of_pedestrians_injured int NULL
        number_of_pedestrians_killed int NULL,
        number_of_persons_injured int NULL,
        number_of_persons_killed int NULL,
        vehicle type code1 varchar(80) NULL,
        vehicle_type_code2 varchar(80) NULL,
        vehicle_type_code_3 varchar(80) NULL,
        vehicle_type_code_4 varchar(80) NULL,
        vehicle_type_code_5 varchar(80) NULL,
CREATE TABLE Dim_Date(
//sorragate key
Dim_Date_SK INT PRIMARY KEY,
//from stg_biq_query
Date_NK Date,
Day INT,
DayOfWeek INT
)
CREATE TABLE Dim_Time(
//surrogate key
Dim_Time_SK INT PRIMARY KEY,
//from stg_big_query
Time_NK Time,
Hour INT
)
CREATE TABLE Dim Injure(
//surrogate key
Dim_Injure_SK INT PRIMARY KEY,
//from stg persons
EJECTION varchar(80) NULL,
EMOTIONAL STATUS varchar(80) NULL,
BODILY INJURY varchar(80) NULL,
POSITION IN VEHICLE varchar(255) NULL,
SAFETY EQUIPMENT varchar(255) NULL,
//create
DI PID varchar(20) NULL,
```

```
DI_Create_Date datetime DEFAULT getdate() NULL
CREATE TABLE Dim_Person(
//surrogate key
Dim PersonInfo SK INT PRIMARY KEY,
//from Stg persons
PERSON ID varchar(80) NULL,
PERSON TYPE varchar(80) NULL,
PERSON_INJURY varchar(80) NULL,
PERSON AGE int NULL,
PERSON_SEX varchar(10) NULL,
Dim Injure SK INT FOREIGN KEY REFERENCES Dim Injure(Dim Injure SK),
//create
DI PID varchar(20) NULL,
DI_Create_Date datetime DEFAULT getdate() NULL
CREATE TABLE Dim Ped(
//surrogate key
Dim_Ped_SK INT PRIMARY KEY,
//from stg_persons
PED_LOCATION varchar(255) NULL,
PED_ACTION varchar(255) NULL,
COMPLAINT varchar(255) NULL,
PED_ROLE varchar(255) NULL,
//create
DI_PID varchar(20) NULL,
DI_Create_Date datetime DEFAULT getdate() NULL
CREATE TABLE Dim Vehicle Damage(
//surrogate key
Dim_Vehicle_Damge_SK INT PRIMARY KEY,
//from stg_vehicles
PRE CRASH varchar(255) NULL,
POINT OF IMPACT varchar(255) NULL,
VEHICLE_DAMAGE varchar(255) NULL,
VEHICLE_DAMAGE_1 varchar(255) NULL,
VEHICLE_DAMAGE_2 varchar(255) NULL,
VEHICLE_DAMAGE_3 varchar(255) NULL,
PUBLIC_PROPERTY_DAMAGE varchar(1024) NULL,
PUBLIC_PROPERTY_DAMAGE_TYPE varchar(1024) NULL,
//create
DI_PID varchar(20) NULL,
DI_Create_Date datetime DEFAULT getdate() NULL
CREATE TABLE Dim Travel Direction(
//surrogate key
Dim Travel Direction SK INT PRIMARY KEY,
//From stg_Vehicles
TRAVEL_DIRECTION varchar(255) NULL,
//Create
DI PID varchar(20) NULL,
DI Create Date datetime DEFAULT getdate() NULL
```

```
CREATE TABLE Dim_Driver(
//Surrogate key
Dim_Driver_SK INT PRIMARY KEY,
//From stg_Vehicles
DRIVER SEX varchar(80) NULL,
DRIVER LICENSE STATUS varchar(255) NULL,
DRIVER LICENSE JURISDICTION varchar(255) NULL,
//Create
DI PID varchar(20) NULL,
DI Create Date datetime DEFAULT getdate() NULL
CREATE TABLE Dim Vehicle(
//surrogate key
Dim_Vehicle_SK INT PRIMARY KEY,
//From stg_Vehicles
VEHICLE ID varchar(80) NULL,
STATE REGISTRATION varchar(80) NULL,
VEHICLE TYPE varchar(80) NULL,
VEHICLE_MAKE varchar(80) NULL,
VEHICLE_MODEL varchar(80) NULL,
VEHICLE_YEAR varchar(80) NULL,
VEHICLE_OCCUPANTS int NULL,
//create foreign key
Dim Vehicle Damge SK INT FOREIGN KEY REFERENCES Dim Vehicle Damage(Dim Vehicle Damge SK),
Dim_Travel_Direction_SK INT FOREIGN KEY REFERENCES
Dim Travel Direction(Dim Travel Direction SK),
Dim Driver_SK INT FOREIGN KEY REFERENCES Dim_Driver(Dim_Driver_SK),
//create
DI PID varchar(20) NULL,
DI_Create_Date datetime DEFAULT getdate() NULL
CREATE TABLE Dim_Location(
//Surrogate key
Dim Location SK INT PRIMARY KEY,
//From stg_big_Query
borough varchar(40) NULL,
zip_code varchar(40) NULL,
off street name varchar(40) NULL,
on_street_name varchar(40) NULL,
cross_street_name varchar(40) NULL,
latitude numeric(24,6) NULL,
longitude numeric(24,6) NULL,
location varchar(256) NULL,
//create
DI JobID varchar(20) NULL,
DI Create Date datetime DEFAULT getdate() NULL
CREATE TABLE Dim_Vehicle_Factor(
//Surrogate key
Dim Vehicle Factor SK INT PRIMARY KEY,
//From stg big query
contributing factor vehicle 1 varchar(256) NULL,
vehicle type code1 varchar(80) NULL,
//create
```

```
DI_JobID varchar(20) NULL,
DI_Create_Date datetime DEFAULT getdate() NULL
CREATE TABLE Fct Crash(
//surrogate key
Fct Crash SK INT PRIMARY KEY,
//From stg_big_query
COLLISION ID bigint NOT NULL,
collision day date NULL,
Dim Date SK INT FOREIGN KEY REFERENCES Dim Date(Dim Date SK),
Dim Time SK INT FOREIGN KEY REFERENCES Dim Time(Dim Time SK),
collision time time NULL,
Dim_Person_SK INT FOREIGN KEY REFERENCES Dim_Person(Dim_PersonInfo SK),
Dim_Ped_SK INT FOREIGN KEY REFERENCES Dim_Ped(Dim_Ped_SK),
Dim Vehicle SK INT FOREIGN KEY REFERENCES Dim Vehicle (Dim Vehicle SK),
Dim Location SK INT FOREIGN KEY REFERENCES Dim Location(Dim Location SK),
number of cyclist injured int NULL,
number_of_cyclist_killed int NULL,
number_of_motorist_injured int NULL,
number_of_motorist_killed int NULL,
number_of_pedestrians_injured int NULL,
number_of_pedestrians_killed int NULL,
number_of_persons_injured int NULL,
number_of_persons_killed int NULL,
//Create
DI JobID varchar(20) NULL,
DI_Create_Date datetime DEFAULT getdate() NULL
CREATE TABLE Bridge(
//create foreign key
Dim_Vehicle_Factor_SK INT FOREIGN KEY REFERENCES
Dim_Vehicle_Factor(Dim_Vehicle_Factor_SK) ,
Vehicle Factor Group SK INT FOREIGN KEY REFERENCES Fct Crash(Fct Crash SK),
DI_JobID varchar(20) NULL,
DI_Create_Date datetime DEFAULT getdate() NULL
```