

SQL Queries:

-- How Many Car Accidents Are There in NYC Every Year?

```
SELECT YEAR(collision_dt) AS Year, COUNT(collision_id) AS Car_Accidents
FROM fct_collision_crashes c
JOIN fct_Collisions_Vehicles fcv ON fcv.COLLISION_ID = c.collision_id
JOIN Dim_VEHICLE_TYPE vt ON vt.VEHICLE_TYPE_SK = fcv.VEHICLE_TYPE_SK
WHERE vt.VEHICLE_TYPE LIKE 'car%' OR vt.VEHICLE_TYPE LIKE 'sedan%'
GROUP BY YEAR(collision_dt)
ORDER BY 1 DESC;
```

--Which Boroughs in New York City Have the Most Accidents?

```
SELECT borough, COUNT(collision_id) AS Accidents
FROM fct_collision_crashes
GROUP BY borough
ORDER BY 2 DESC;
```

-- How Many NYC Car Accidents Result in an Injury?

```
SELECT COUNT(c.collision_id) AS Car_Accidents
FROM fct_collision_crashes c
INNER JOIN fct_collision_persons p ON p.COLLISION_ID = c.collision_id
INNER JOIN Dim_PERSON_INJURY dpi ON dpi.PERSON_INJURY_SK = p.PERSON_INJURY_SK
WHERE dpi.PERSON_INJURY = 'Injured';
```

--Which NYC Borough Has the Most Fatal Car Accidents?

```
SELECT c.borough, COUNT(c.collision_id) AS CarAccidents
FROM fct_collision_crashes c
INNER JOIN fct_collision_persons p ON p.COLLISION_ID = c.collision_id
INNER JOIN Dim_PERSON_INJURY dpi ON dpi.PERSON_INJURY_SK = p.PERSON_INJURY_SK
WHERE dpi.PERSON_INJURY = 'Killed'
GROUP BY c.borough;
```

--When Do Most New York City Car Accidents Happen?

```
SELECT CONCAT(c.collision_hour, ':00'), COUNT(c.collision_id) AS CarAccidents
FROM fct_collision_crashes c
GROUP BY c.collision_hour
ORDER BY 2 DESC
LIMIT 1;
```

--How Common Are Bicycle Accidents in NYC?

```
SELECT COUNT(c.collision_id) AS BicycleAccidents
FROM fct_collision_crashes c
INNER JOIN fct_collision_persons p ON p.COLLISION_ID = c.collision_id
INNER JOIN Dim_PersonType dpt ON dpt.PERSON_TYPE_SK = p.PERSON_TYPE_SK
WHERE dpt.PERSON_TYPE = 'Bicyclist';
```

--How Often Are Pedestrians Involving New York Traffic Accidents?

```
SELECT COUNT(c.collision_id) AS BicycleAccidents
FROM fct_collision_crashes c
INNER JOIN fct_collision_persons p ON p.COLLISION_ID = c.collision_id
INNER JOIN Dim_PersonType dpt ON dpt.PERSON_TYPE_SK = p.PERSON_TYPE_SK
WHERE dpt.PERSON_TYPE = 'Pedestrian';
```

--How Many Motorcyclists are Injured or Killed in NYC Accidents?

```
SELECT SUM(c.number_of_motorist_killed) AS motorist_killed,
SUM(c.number_of_motorist_injured) AS motorist_injured
FROM fct_collision_crashes c;
```

--Are Trucks Involved in Many New York Accidents?

```
SELECT YEAR(c.collision_dt) AS Year, COUNT(c.collision_id) AS Truck_Accident
FROM fct_collision_crashes c
JOIN fct_Collisions_Vehicles v ON v.COLLISION_ID = c.collision_id
JOIN Dim_VEHICLE_TYPE dvt ON dvt.VEHICLE_TYPE_SK = v.VEHICLE_TYPE_SK
WHERE dvt.VEHICLE_TYPE LIKE '%truc%'
GROUP BY YEAR(collision_dt)
ORDER BY 2 DESC;
```