1. Total Casualties For Current Year and Year on Year Growth

(a) Current Year To Date Casualties -- CY Casualties Measure

Current Year Casualties = TOTALYTD(sum(Data[Number_of_Casualties]),Data[Accident Date])

- // This DAX function gives the total casualties for the current Year.
- (b) Previous Year Casualties -- PY Casualties Measure

Last Year Casualties = CALCULATE([Current Year Casualties], SAMEPERIODLASTYEAR(Data[Accident
Date]))

- // This DAX function gives the total casualties for the previous year.
- (c) Year on Year Growth of Casualties YoY Casualties Measure

```
YOY Accidents Growth = CONCATENATE(ROUND(divide([Current Year Casualties]-[Last Year Casualties], [Last Year Casualties], *100,2), "%")
```

// This DAX function gives the year-on-year growth percentage of the casualties.

The final outcome:

Current Year Casualties Last Year Casualties YOY Casualties Growth
195737 222146 -11.89%

2. Total Accidents for Current Year and Year on Year Growth

(a) Current Year Accidents Count -- CY Accidents Count Measure

Current Year Accident Count = CALCULATE(count(Data[Accident_Index]),DATESYTD(Data[Accident
Date]))

- // This DAX function gives the total number of accidents for the current Year.
- (b) Previous Year Accidents Count -- PY Accidents Count Measure

Last Year Casualties = CALCULATE([Current Year Casualties], SAMEPERIODLASTYEAR(Data[Accident
Date]))

- // This DAX function gives the total number of accidents for the previous year.
- (c) Year on Year Growth of Accidents YoY Accidents Measure

```
YOY Accidents Growth = CONCATENATE(ROUND(divide([Current Year Accident Count]-[Last Year Accident Count], [Last Year Accident Count])*100,2),"%")
```

// This DAX function gives the year-on-year growth percentage of the accidents.

The final outcome:

Current Year Accident Count Last Year Accident Count YOY Accidents Growth
144419 163554 -11.7%

3. Total Fatal Casualties For Current Year and Year on Year Growth

(a) Current Year To Date Fatal Casualties -- CY Fatal Casualties Measure

Current Year Fatal Casualties = TOTALYTD(sum(Data[Number_of_Casualties]),Data[Accident
Data],Data[Accident_Severity]="Fatal")

- // This DAX function gives the total fatal casualties for the current Year.
- (b) Previous Year Fatal Casualties -- PY Fatal Casualties Measure

```
Last Year Fatal Casualties = CALCULATE([Current Year Fatal
Casualties], SAMEPERIODLASTYEAR(Data[Accident Date]), Data[Accident Severity]="Fatal")
```

- // This DAX function gives the total fatal casualties for the previous year.
- (c) Year on Year Growth of Fatal Casualties YoY Fatal Casualties Measure

```
YOY Fatal Casualties Growth = CONCATENATE(ROUND(divide([Current Year Fatal Casualties]-
[Last Year Fatal Casualties], [Last Year Fatal Casualties])*100,2),"%")
```

// This DAX function gives the year-on-year growth percentage of the fatal casualties.

The final outcome:

```
Current Year Fatal Casualties Last Year Fatal Casualties YOY Fatal Casualties Growth
2855 4228 -32.47%
```

4. Total Serious Casualties For Current Year and Year on Year Growth

(a) Current Year To Date Serious Casualties -- CY Serious Casualties Measure

Current Year Serious Casualties = TOTALYTD(sum(Data[Number_of_Casualties]),Data[Accident
Data],Data[Accident_Severity]="Serious")

- // This DAX function gives the total serious casualties for the current Year.
- (b) Previous Year Serious Casualties -- PY Serious Casualties Measure

```
Last Year Serious Casualties = CALCULATE([Current Year Serious
Casualties], SAMEPERIODLASTYEAR(Data[Accident Date]), Data[Accident_Severity]=" Serious")
```

- // This DAX function gives the total serious casualties for the previous year.
- (c) Year on Year Growth of Serious Casualties YoY Serious Casualties Measure

```
YOY Serious Casualties Growth = CONCATENATE(ROUND(divide([Current Year Serious Casualties]-
[Last Year Serious Casualties],[Last Year Serious Casualties])*100,2),"%")
```

// This DAX function gives the year-on-year growth percentage of the serious casualties.

The final outcome:

```
Current Year Serious Casualties Last Year Serious Casualties YOY Serious Casualties Growth
27045 32267 -16.18%
```

5. Total Slight Casualties For Current Year and Year on Year Growth

(a) Current Year To Date Slight Casualties -- CY Slight Casualties Measure

```
Current Year Slight Casualties = TOTALYTD(sum(Data[Number_of_Casualties]),Data[Accident Date],Data[Accident_Severity]="Slight")

// This DAX function gives the total slight casualties for the current Year.

(b) Previous Year Slight Casualties -- PY Slight Casualties Measure

Last Year Slight Casualties = CALCULATE([Current Year Slight Casualties],SAMEPERIODLASTYEAR(Data[Accident Date]),Data[Accident_Severity]="Slight")

// This DAX function gives the total slight casualties for the previous year.

(c) Year on Year Growth of Slight Casualties - YoY Slight Casualties Measure

YOY Slight Casualties Growth = CONCATENATE(ROUND(divide([Current Year Slight Casualties]-[Last Year Slight Casualties],[Last Year Slight Casualties])*100,2),"%")

// This DAX function gives the year-on-year growth percentage of the slight casualties.

The final outcome:
```

Current Year Slight Casualties Last Year Slight Casualties YOY Slight Casualties Growth
165837 185599 -10.65%