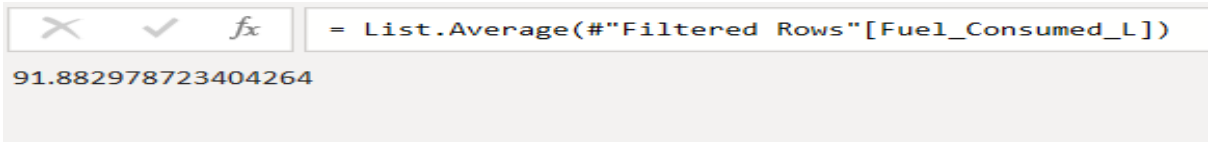
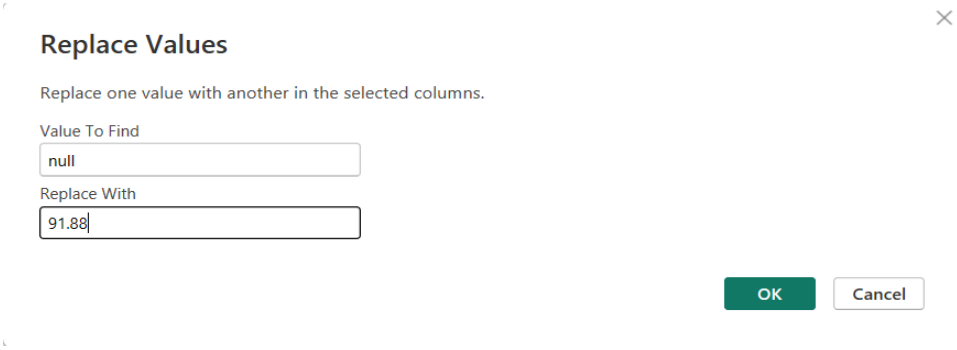
Fleet Performance & Delivery Efficiency Dashboard

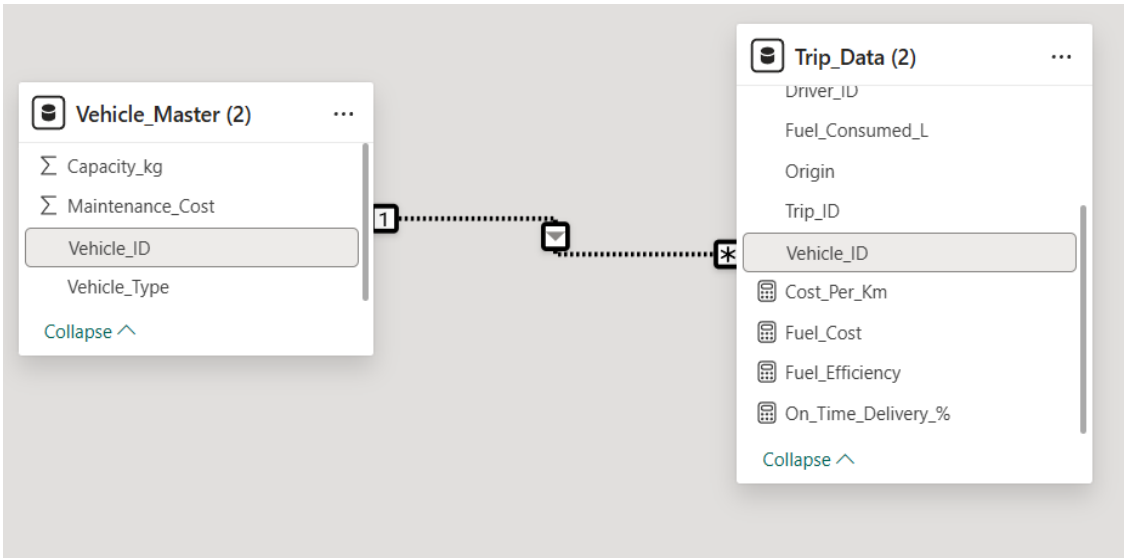
1. Data Cleaning & Modelling:

Fix missing fuel consumption values (use mean imputation).





Relationship using Vehicle_ID between Trip_Data and the Vehicle Master table.



2. DAX Measures:

1.Fuel Efficiency = Distance / Fuel Consumed

```
1 Fuel_Efficiency = DIVIDE(SUM('Trip_Data (2)'[Distance_km]),SUM('Trip_Data (2)'[Fuel_Consumed_L]))
```

2.On-Time Delivery % = On-Time Trips / Total Trips:

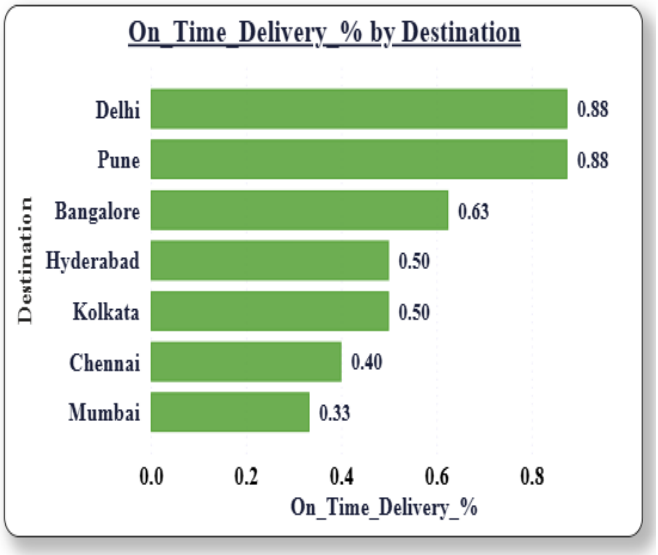
```
1 On_Time_Delivery_% = DIVIDE(CALCULATE(COUNTROWS('Trip_Data (2)'),'Trip_Data (2)'[Delivery_Status] = "On-Time"),countrows('Trip_Data (2)'))
```

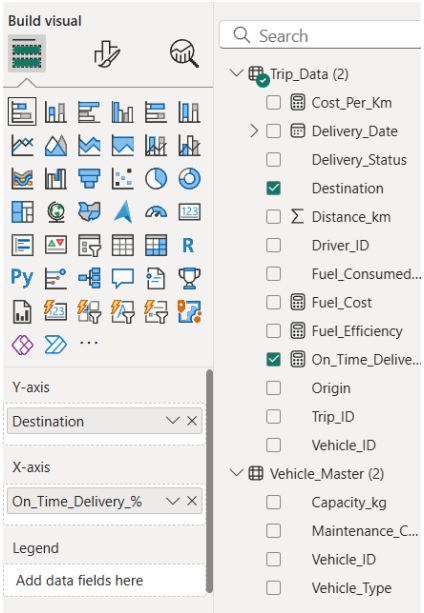
3.Cost per km = (fuel cost + Maintenance Cost) / Distance

```
1 Cost_Per_Km = DIVIDE(SUM('Vehicle_Master (2)'[Maintenance_Cost])+ 100 , SUM('Trip_Data (2)'[Distance_km]))
```

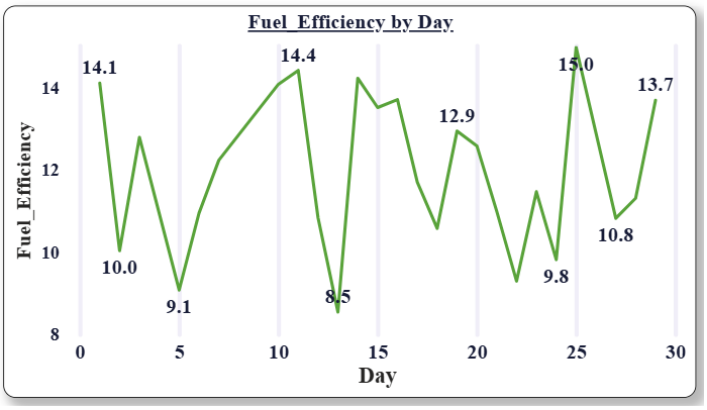
3. Visualization:

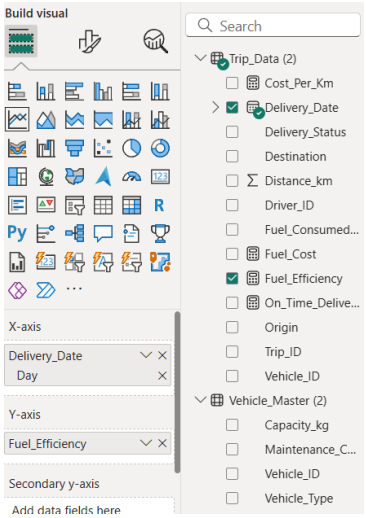
Bar chart: On-Time Delivery % by Destination.





Line chart: Fuel efficiency trend by delivery date.



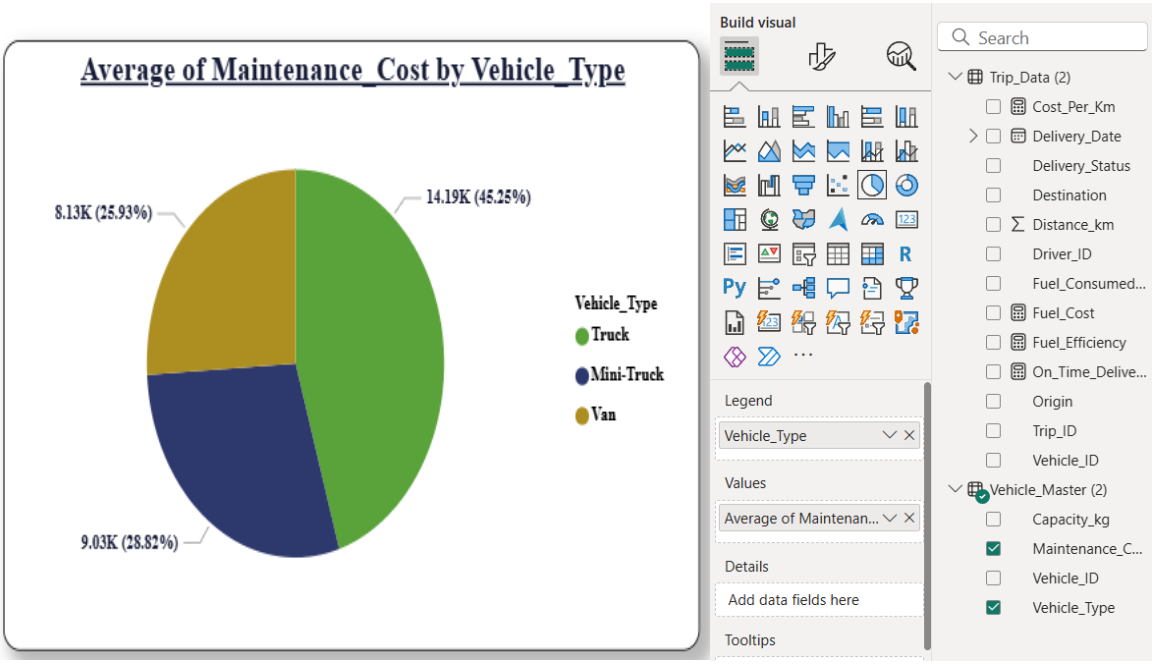


Cards visualization:

■ Avg. Delivery Time

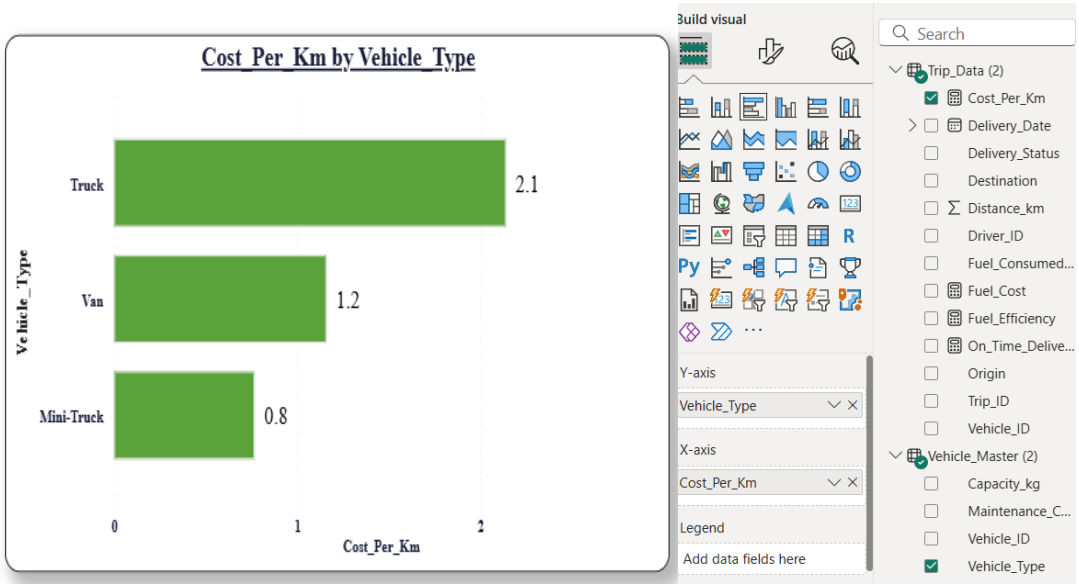
■ Average cost per km

Pie chart: vehicle type vs Average maintenance cost



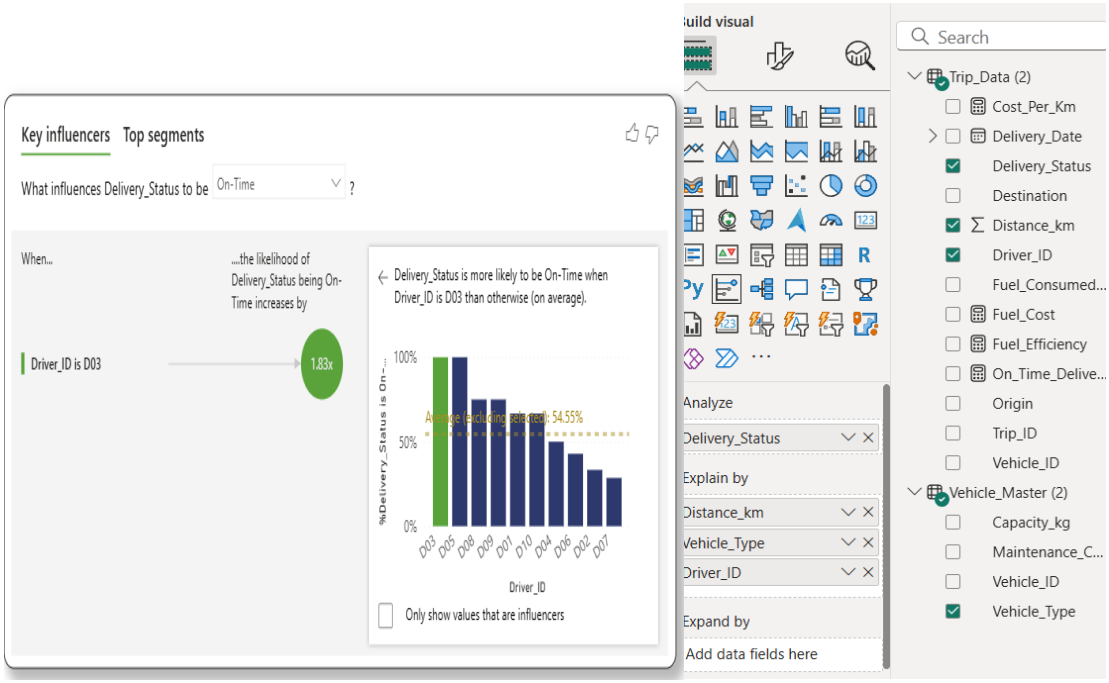
4. AI-Powered Visuals

❖ Q&A Visual: Average Cost per km by vehicle type



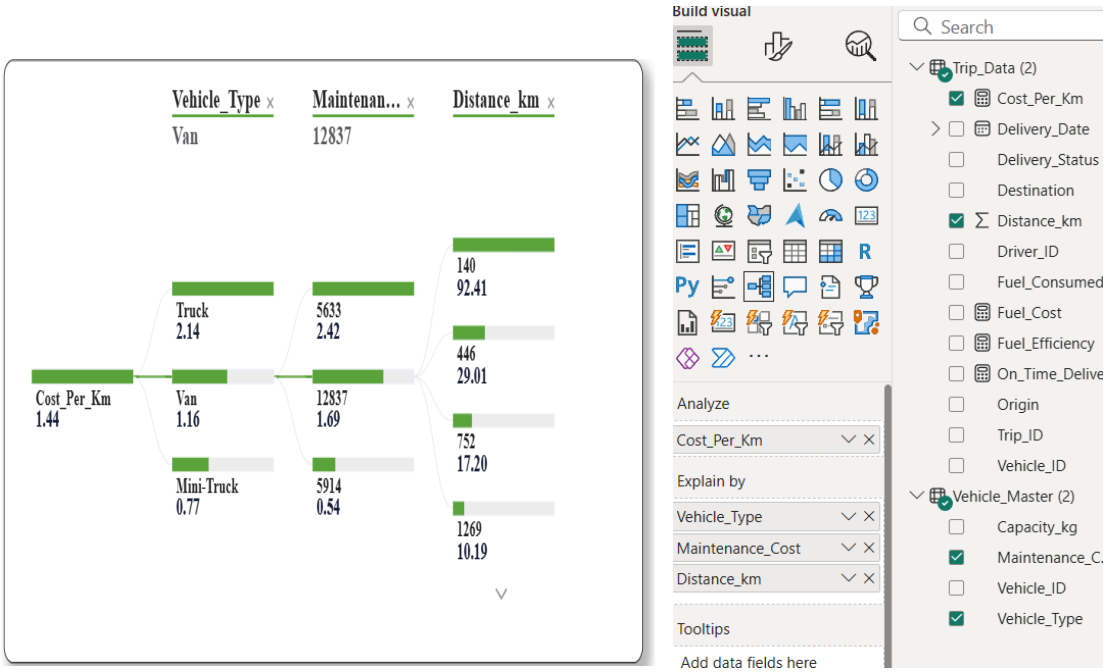
Key Influencers Visual:

Delivery Status by -distance in km, vehicle type, Driver_ID



Decomposition Tree (AI Visual):

Cost per km by Vehicle Type, Maintenance_cost, and Distance_km.



DASHBOARD


Fleet Performance & Delivery Efficiency Dashboard
11.52
Fuel_Efficiency
0.60
On_Time_Deliver...
1.44
Cost_Per_Km
Destination
All
Origin
All
Vehicle_ID
All
Fuel_Efficiency by Day
Fuel_Efficiency
Day
On_Time_Delivery_% by Destination
Delhi 0.88
Pune 0.88
Bangalore 0.63
Hyderabad 0.50
Kolkata 0.50
Chennai 0.40
Destination
On_Time_Delivery_%
Average of Maintenance_Cost by Vehicle_Type
8.13K (25.93%)
14.19K (45....)
9.03K (28.82%)
Vehicle_Type
Truck
Mini-Truck
Van
Cost_Per_Km by Vehicle_Type
Truck 2.1
Van 1.2
Min... 0.8
Vehicle_Type
Cost_Per_Km
Vehicle_Type
Van
Maintenan...
12837
Truck 2.14
5633 2.42
Cost_Per_Km 1.44
Van 1.16
12837 1.69
Mini-Truck 0.77
5914 0.54
Key influencers
Top segments
What influences Delivery_Status to be On-Time ?
When...
Driver_ID is D03
....the likelihood of Delivery_Status being On-Time increases by
1.83x
Delivery_Status is more likely to be On-Time when Driver_ID is D03 than otherwise (on average).
100%
50%
0%
Only show values that are influencers