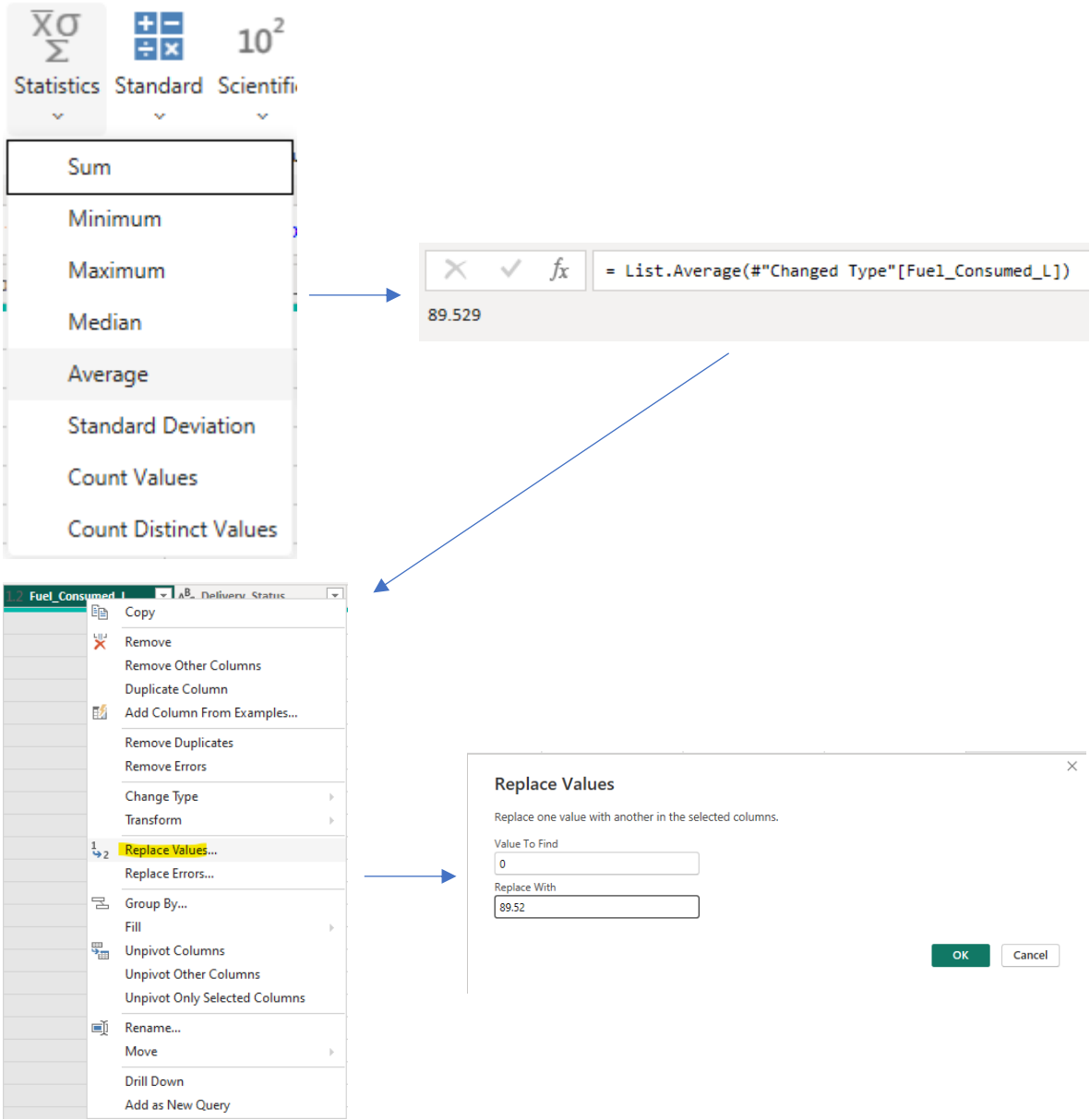
Logistics & Transportation- Fleet Performance & Delivery Efficiency

Data Cleaning & Modelling

1.Fix missing fuel consumption values (use avg. per vehicle type).

Found Value "**0**" in "**Fuel_Cunsumed_L**" Column > Found **Average value** > **Replaced** it

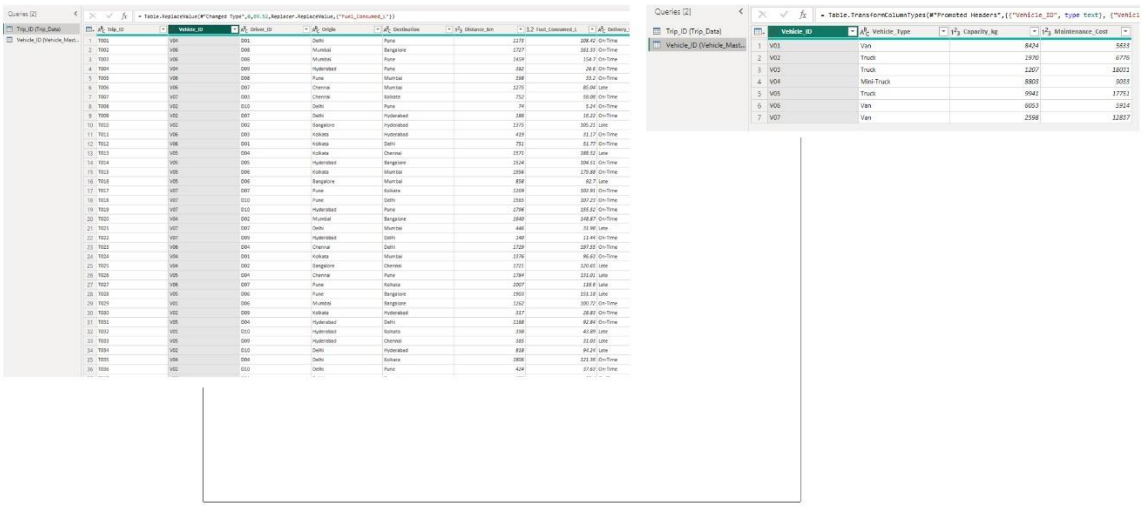


2.Relate Trips with Vehicle Master.

We have two table called **Trip** and **Vehicle Master** and each table has a common column called **Vehicle_ID.**

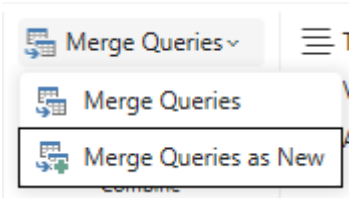
Trip ID

Vehicle ID

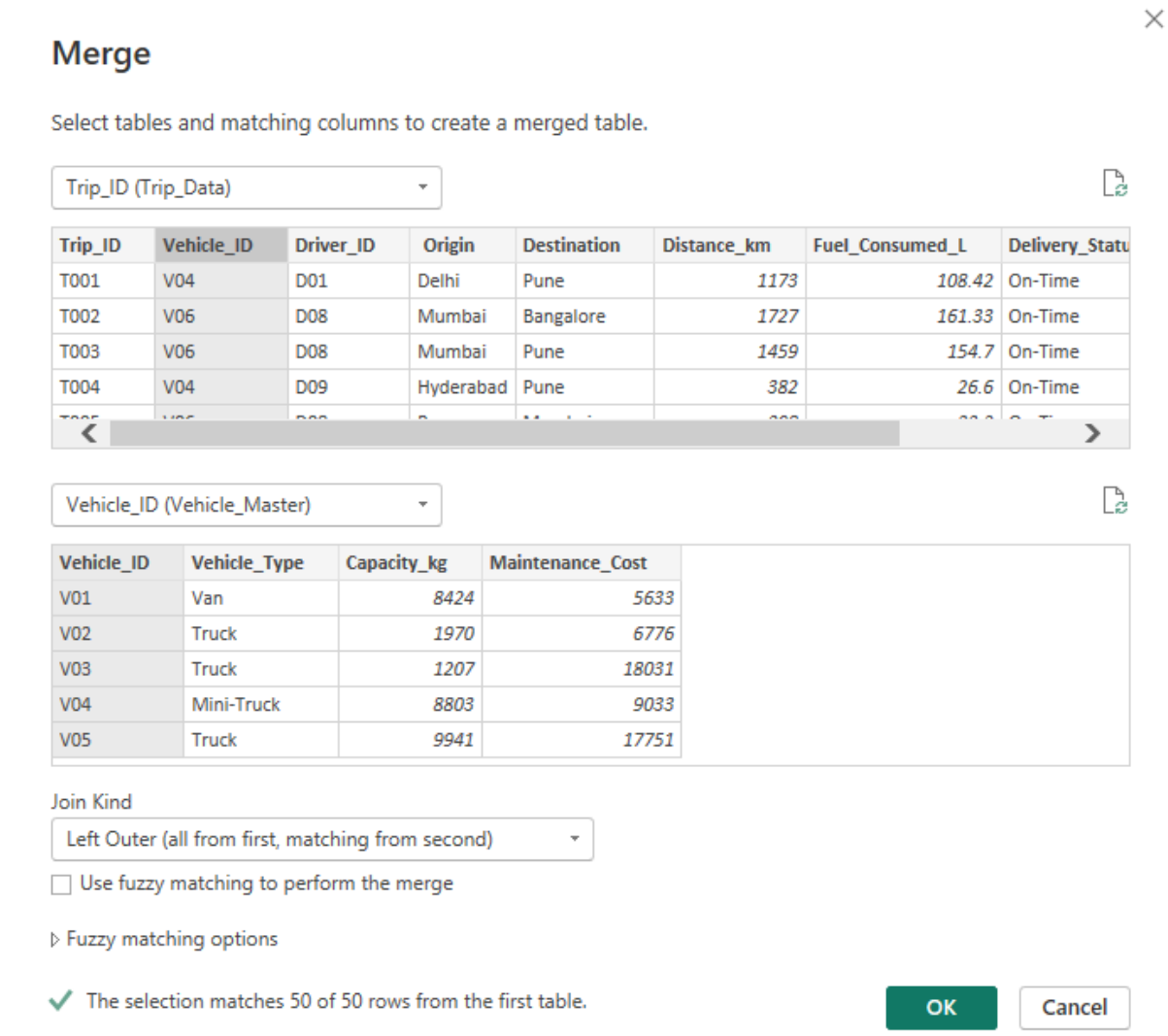


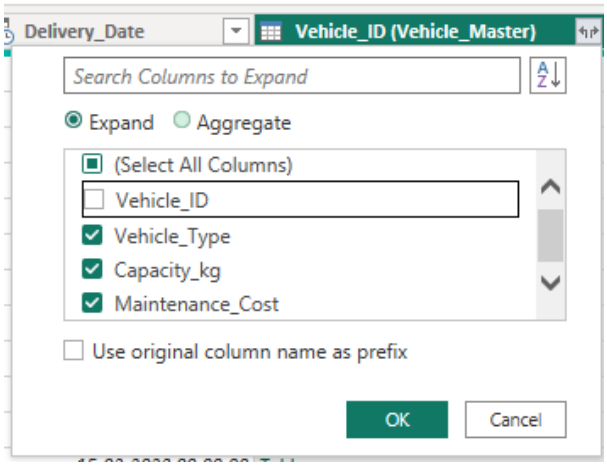
Vehicle_ID Column

We're going to relate a both table using **"Merge queries"**



I Used **Left Outer** for this joins





Renamed as **Vehicle_Report**

DAX Measures

1.Fuel Efficiency = Distance / Fuel Consumed

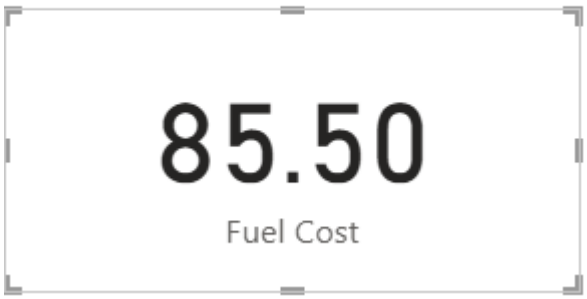
```
Fuel Efficiency = DIVIDE(SUM(Vehicle_Report[Distance_km]),SUM('Trip_ID (Trip_Data)'[Fuel_Consumed_L]),0)
```

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

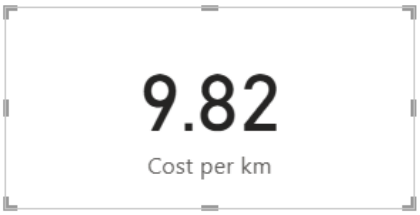
```
On-Time Delivery % =
DIVIDE(
    CALCULATE(
        COUNTROWS('Vehicle_Report'),
        'Vehicle_Report'[Delivery_status] = "On-Time"
    ),
    COUNTROWS('Vehicle_Report'),
    0
)
```

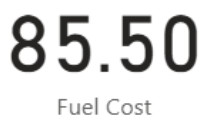
3.Cost per km = (Fuel Cost + Maintenance Cost) / Distance

```
1  Fuel Cost = 85.50
```



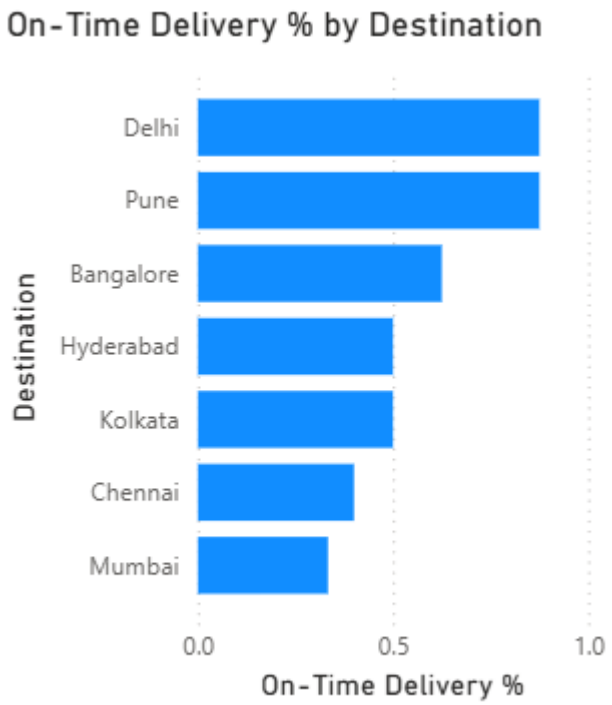

```
1 Cost per km =
2 DIVIDE(
3     [Fuel Cost] + SUM('Vehicle_Report'[Maintenance_Cost]),
4     SUM('Vehicle_Report'[Distance_km]),
5     0
6 )
```



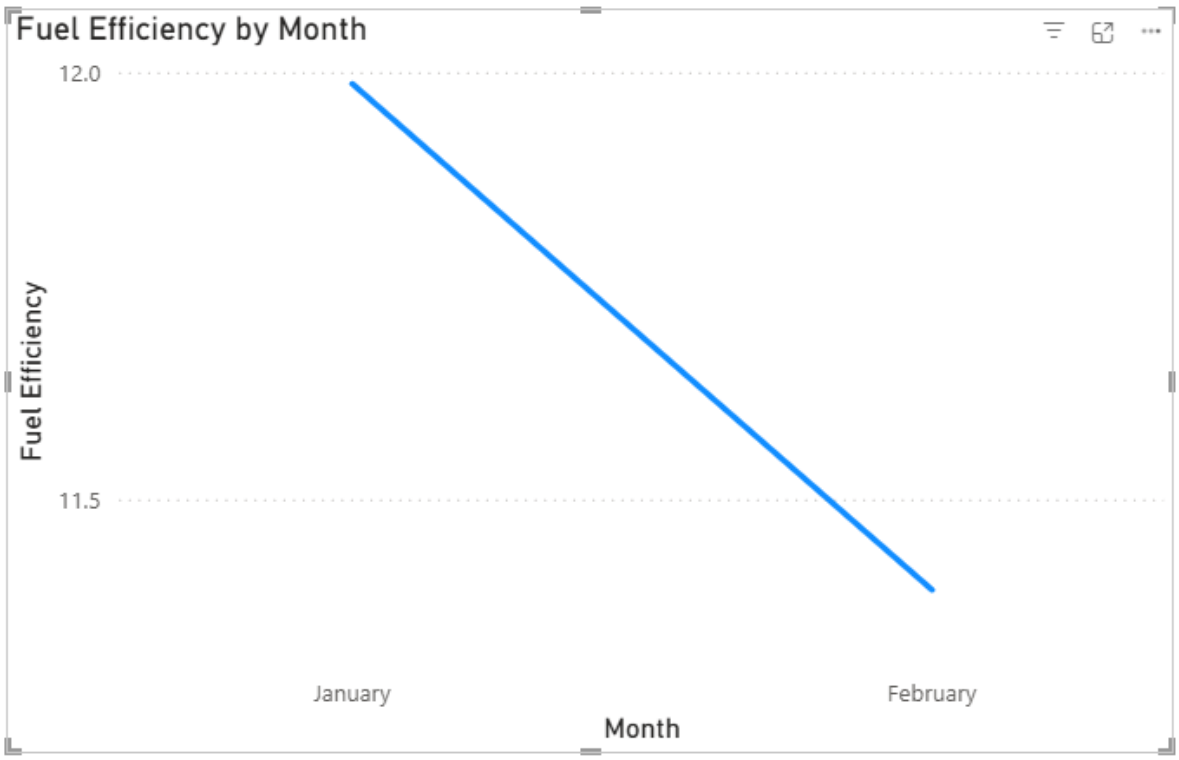


Visualization

1.Bar chart: On-Time Delivery % by Route.

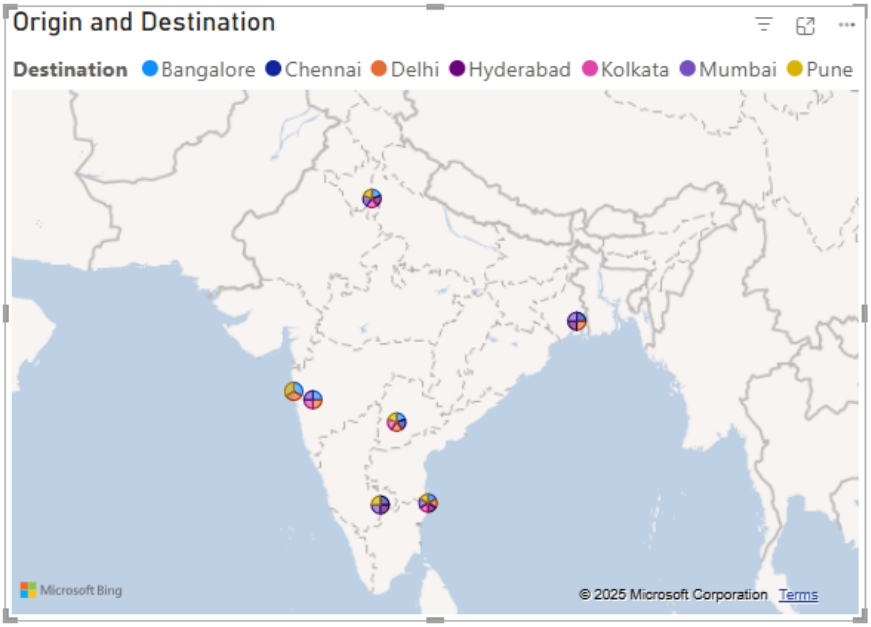


2.Line chart: Fuel Efficiency trend by month.



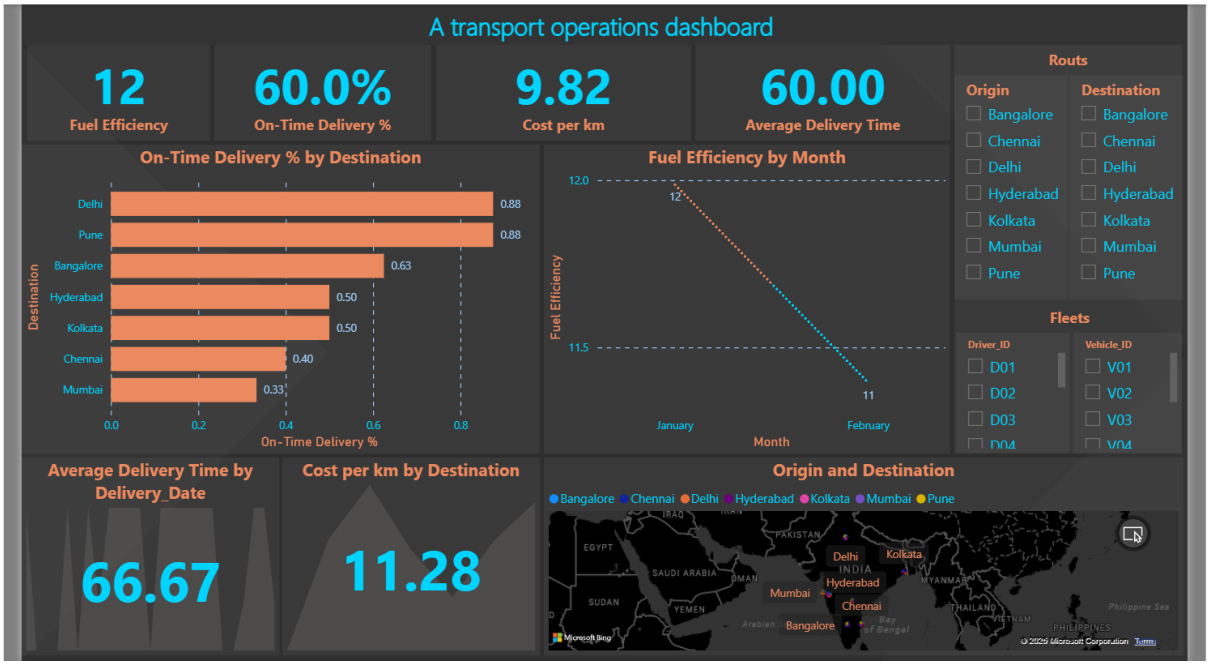
3. KPI cards: Avg. Delivery Time, Cost per km.

4.Map visual: Delivery performance by route (Origin → Destination).

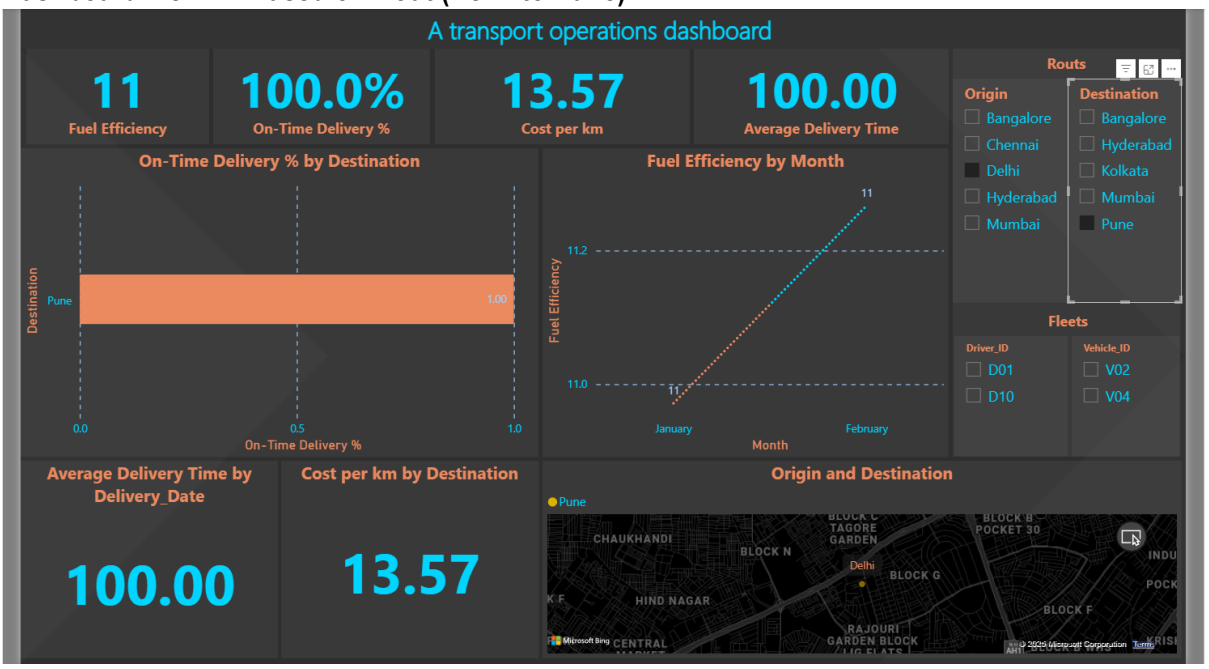


A transport operations dashboard to optimize routes and fleet usage.

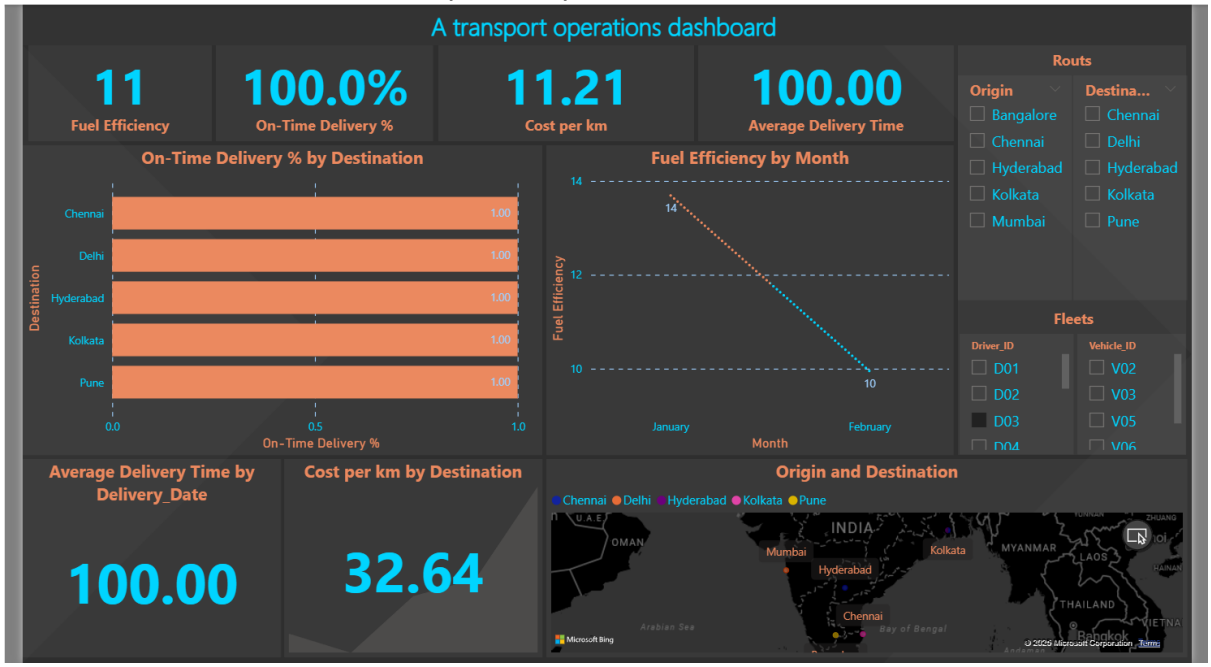
Dashboard view 1 : Normal



Dashboard view 2 : Based on Rout (Delhi to Pune)



Dashboard view 3 : Based on Fleet (Driver ID)



Mobile Dashboard View: 1