

DATA CLEANING AND MODELING

1.Fix Missing Fuel Consumption Values(Using AVG).

Queries [2]

✕ ✓ f_x

= List.Average(#"Changed Type"[Fuel_Consumed_L])

Trip_ID (Trip_Data)

Vehicle_ID (Vehicle_Mast...

91.35612244897959

Query Settings

PROPERTIES

Name

Trip_ID (Trip_Data)

All Properties

APPLIED STEPS

Source

Navigation

FilterNullAndWhitespace

Removed Bottom Rows

Promoted Headers

Changed Type

Calculated Average

| | | | | | | | | |
|------|-----|-----|-----------|-----------|------|--------|---------|---------------------|
| T047 | V05 | D06 | Hyderabad | Delhi | 572 | 61.6 | On-Time | 22-01-2023 00:00:00 |
| T048 | V04 | D01 | Chennai | Bangalore | 1441 | 140.79 | Late | 28-02-2023 00:00:00 |
| T049 | V07 | D04 | Bangalore | Mumbai | 1685 | 119.01 | Late | 16-02-2023 00:00:00 |
| T050 | V06 | D03 | Mumbai | Delhi | 1233 | 91.35 | On-Time | 12-01-2023 00:00:00 |

2.Relate Trips with Vehicle Master.

Vehicle_ID (Vehicle_Mas... ...

Capacity_kg

Maintenance_Cost

Vehicle_ID

Vehicle_Type

Collapse ^

Trip_ID (Trip_Data)

Delivery_Date

Delivery_Status

Destination

Distance_km

Driver_ID

Fuel_Consumed_L

Origin

Trip_ID

Vehicle_ID

Collapse ^

1

1

*

Properties

Tables


Model


Search


Trip_ID (Trip_Data)


Vehicle_ID (Vehicle_Master) (2)


+ New relationship

 Autodetect

 Edit

 Delete

 Filter ▼

| <input checked="" type="checkbox"/> | From: table (column) | ↑ | Relationship | To: table (column) | Status | |
|-------------------------------------|----------------------------------|---|---|------------------------------------|--------|----------------|
| <input checked="" type="checkbox"/> | Trip_ID (Trip_Data) (Vehicle_ID) | |  | Vehicle_ID (Vehicle_Master) (2)... | Active | <div>...</div> |

Close

DAX MEASURES

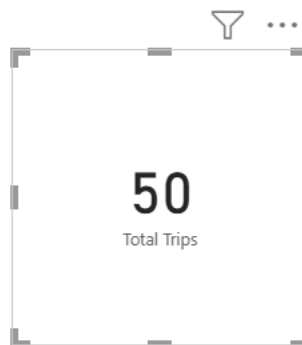
1. Fuel Efficiency

```
1 Fuel Efficiency = 'Trip_ID (Trip_Data)'[Distance_km]/'Trip_ID (Trip_Data)'[Fuel_Consumed_L]
```

| ehicle_ID | Driver_ID | Origin | Destination | Distance_km | Fuel_Consumed_L | Delivery_Status | Delivery_Date | Fuel Efficiency |
|-----------|-----------|-----------|-------------|-------------|-----------------|-----------------|---------------------|------------------|
| 14 | D01 | Delhi | Pune | 1173 | 108.42 | On-Time | 27-01-2023 00:00:00 | 10.8190370780299 |
| 16 | D08 | Mumbai | Bangalore | 1727 | 161.33 | On-Time | 21-02-2023 00:00:00 | 10.7047666274097 |
| 16 | D08 | Mumbai | Pune | 1459 | 154.7 | On-Time | 17-02-2023 00:00:00 | 9.4311570782159 |
| 14 | D09 | Hyderabad | Pune | 382 | 26.6 | On-Time | 18-02-2023 00:00:00 | 14.3609022556391 |
| 16 | D08 | Pune | Mumbai | 398 | 33.2 | On-Time | 15-02-2023 00:00:00 | 11.9879518072289 |
| 16 | D07 | Chennai | Mumbai | 1275 | 85.04 | Late | 25-02-2023 00:00:00 | 14.9929444967074 |
| 17 | D03 | Chennai | Kolkata | 752 | 58.08 | On-Time | 19-01-2023 00:00:00 | 12.9476584022039 |
| 12 | D10 | Delhi | Pune | 74 | 5.24 | On-Time | 01-01-2023 00:00:00 | 14.1221374045802 |
| 12 | D07 | Delhi | Hyderabad | 186 | 16.22 | On-Time | 23-02-2023 00:00:00 | 11.4673242909988 |
| 12 | D02 | Bangalore | Hyderabad | 1375 | 105.21 | Late | 02-02-2023 00:00:00 | 13.0690998954472 |
| 16 | D03 | Kolkata | Hyderabad | 419 | 31.17 | On-Time | 21-01-2023 00:00:00 | 13.4424125761951 |
| 16 | D01 | Kolkata | Delhi | 751 | 51.77 | On-Time | 15-02-2023 00:00:00 | 14.5064709291095 |
| 15 | D04 | Kolkata | Chennai | 1571 | 188.52 | Late | 02-02-2023 00:00:00 | 8.33333333333333 |
| 15 | D05 | Hyderabad | Bangalore | 1524 | 104.51 | On-Time | 16-02-2023 00:00:00 | 14.5823366185054 |
| 15 | D06 | Kolkata | Mumbai | 1956 | 179.88 | On-Time | 21-01-2023 00:00:00 | 10.8739159439626 |
| 15 | D06 | Bangalore | Mumbai | 858 | 92.7 | Late | 18-01-2023 00:00:00 | 9.25566343042071 |
| 17 | D07 | Pune | Kolkata | 1269 | 102.91 | On-Time | 16-01-2023 00:00:00 | 12.331163152269 |
| 17 | D10 | Pune | Delhi | 1565 | 107.23 | On-Time | 12-02-2023 00:00:00 | 14.5947962323977 |
| 17 | D10 | Hyderabad | Pune | 1796 | 155.52 | On-Time | 28-02-2023 00:00:00 | 11.548353909465 |
| 14 | D02 | Mumbai | Bangalore | 1640 | 148.87 | On-Time | 06-01-2023 00:00:00 | 11.0163229663465 |
| 17 | D07 | Delhi | Mumbai | 446 | 31.98 | Late | 11-01-2023 00:00:00 | 13.9462163852408 |

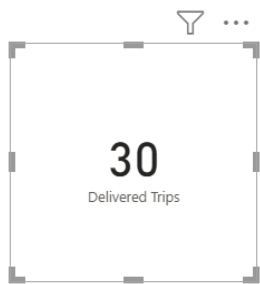
2. On Time Delivery %

```
1 Total Trips = COUNTROWS('Trip_ID (Trip_Data)')
```



```
1 Delivered Trips = COUNTROWS(FILTER('Trip_ID (Trip_Data)', 'Trip_ID (Trip_Data)'[Delivery_Status]= "On-Time"))
```

50
Total Trips



Search

Filters on this visual

Delivered Trips
is (All)

Add data fields here

Filters on this page

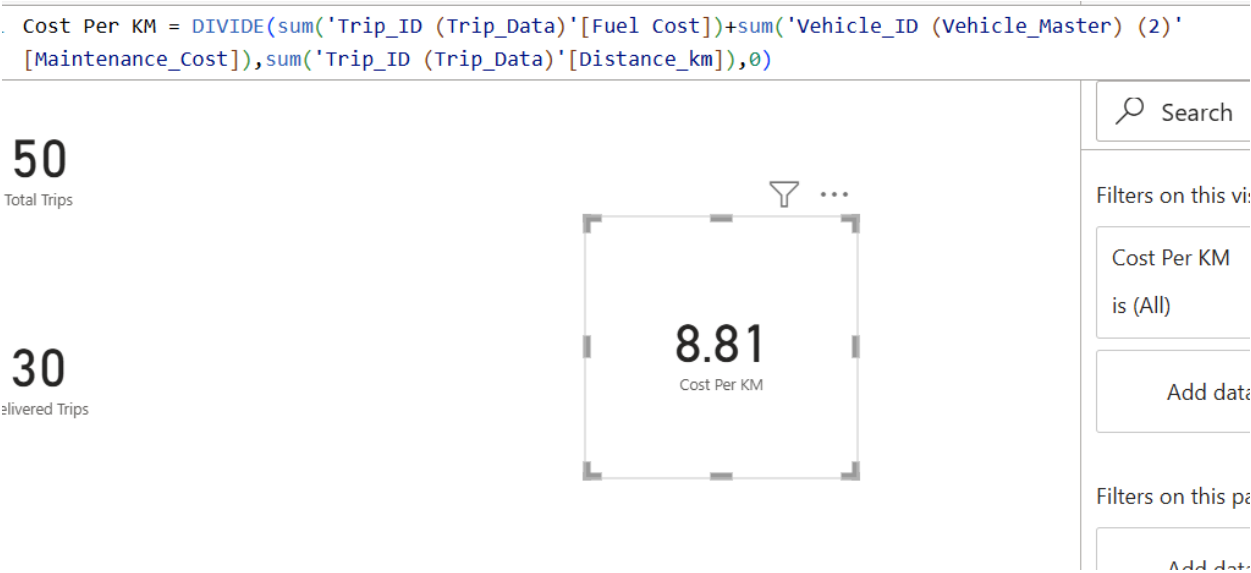
```
1 On-Time Delivery % = DIVIDE([Delivered Trips],'Trip_ID (Trip_Data)'[Total Trips],0)
```

50
Total Trips

30
Delivered Trips



3. Cost Per KM



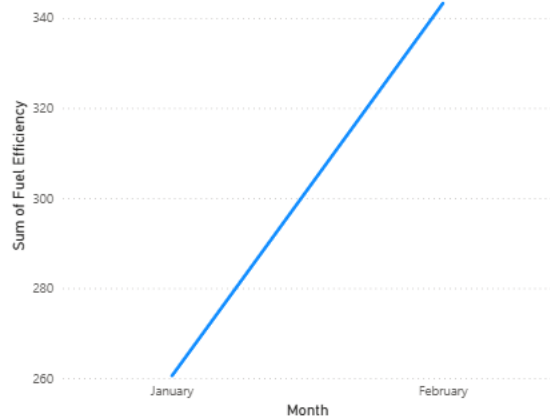
VISUALIZATION

1. On-Time Delivery % by Route.



2. Fuel Efficiency trend by month.

Sum of Fuel Efficiency by Month



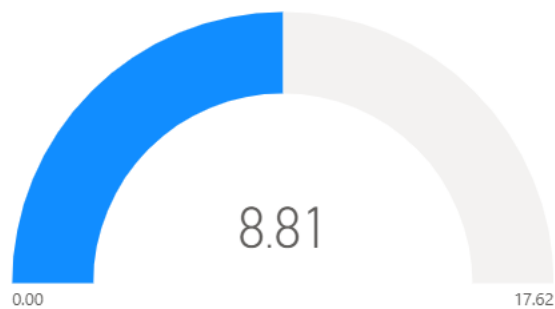
3. Avg. Delivery Time.

On-Time Delivery %



Cost per km.

Cost Per KM



4. Delivery performance by route (Origin → Destination).

Origin and Delivery_Status

Delivery_Status ● Late ● On-Time



Destination and Delivery_Status

Delivery_Status ● Late ● On-Time



EXPECTED OUTPUT

A transport operations dashboard to optimize routes and fleet usage.

