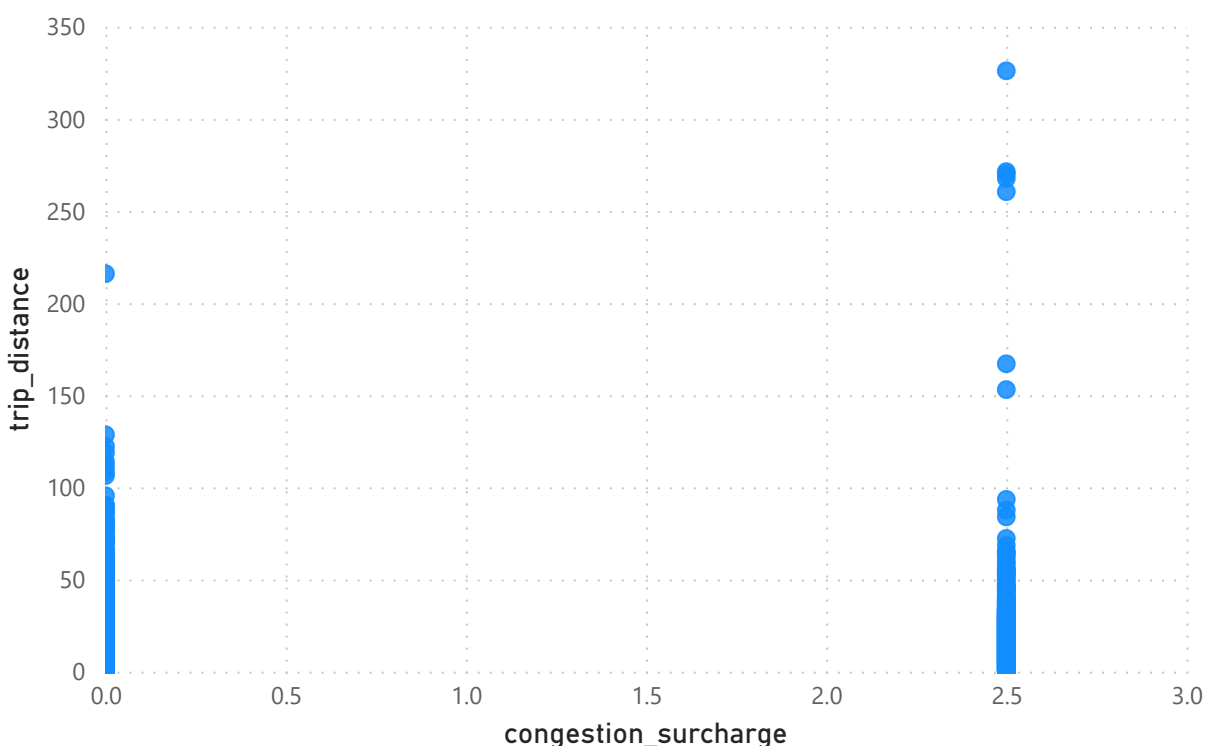


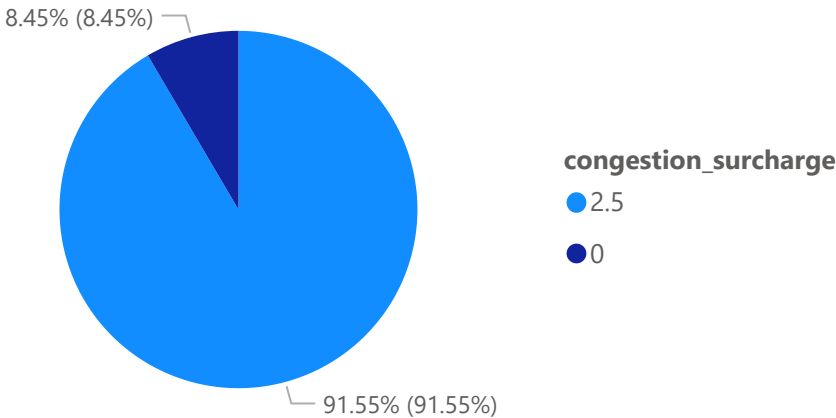
# Congestion surcharge Vs Trip distance

congestion\_surcharge and trip\_distance



trip_distance	0.00	2.50	Total
0.10	72.50	156.00	228.50
0.20	158.20	779.60	937.80
0.30	340.80	2,778.00	3,118.80
0.40	856.80	8,563.20	9,420.00
0.50	1,288.50	14,548.50	15,837.00
0.60	2,200.20	26,116.20	28,316.40
0.70	2,384.20	31,363.50	33,747.70
0.80	3,246.40	44,432.00	47,678.40
0.90	3,130.20	43,581.60	46,711.80
1.00	3,891.00	55,500.00	59,391.00
1.10	3,258.20	51,662.60	54,920.80
Total	610,545.50	2,688,114.10	3,298,659.60

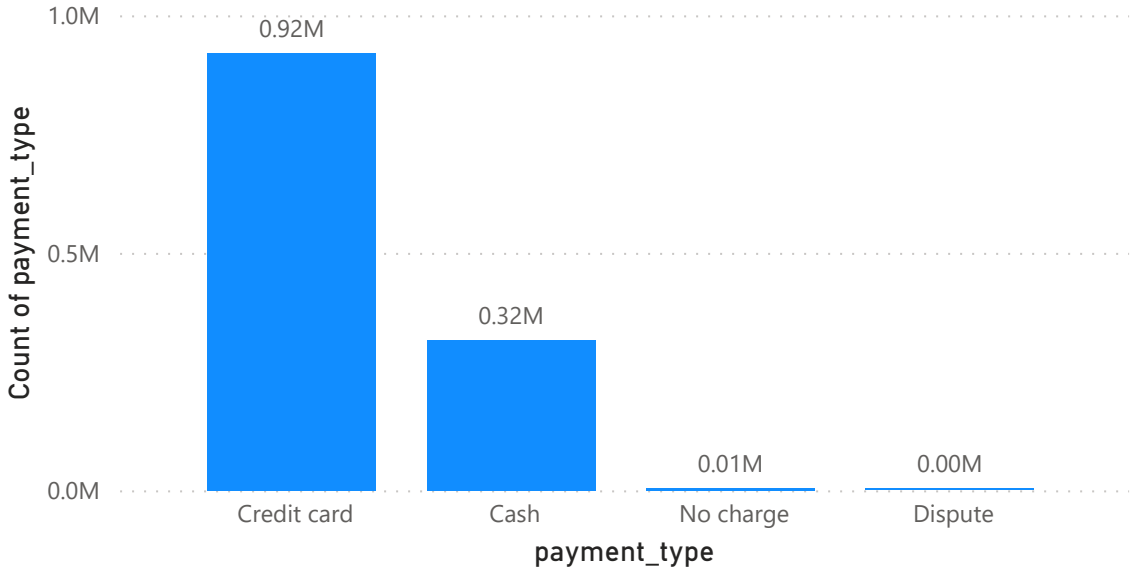
%GT Count of congestion\_surcharge by congestion\_surcharge



All the trips have been assigned a congestion surcharge of \$0.0 and \$2.5. Besides, 91.55% trips have \$2.5 congestion surcharge and 8.45% trips have no congestion surcharge at all.

# Classifying Trips based on Payment Type

Count of payment\_type by payment\_type



1.24M

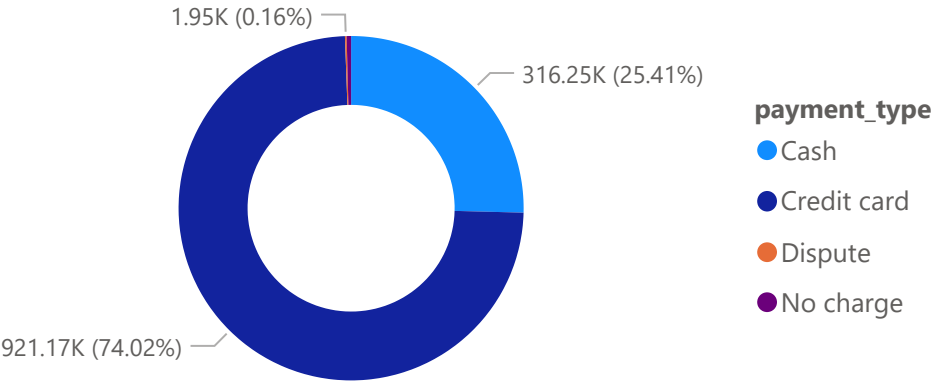
Count of payment\_type

4

Count of payment\_type

payment_type	Count of payment_type
Cash	316249
Credit card	921170
Dispute	1949
No charge	5146
Total	1244514

Count of payment\_type by payment\_type



**Majority of the trips i.e., 74% are associated with Credit Card Payment Type, followed by Cash as 25%.**

VendorID ▼

☐ Creative Mobile Technologies, LLC

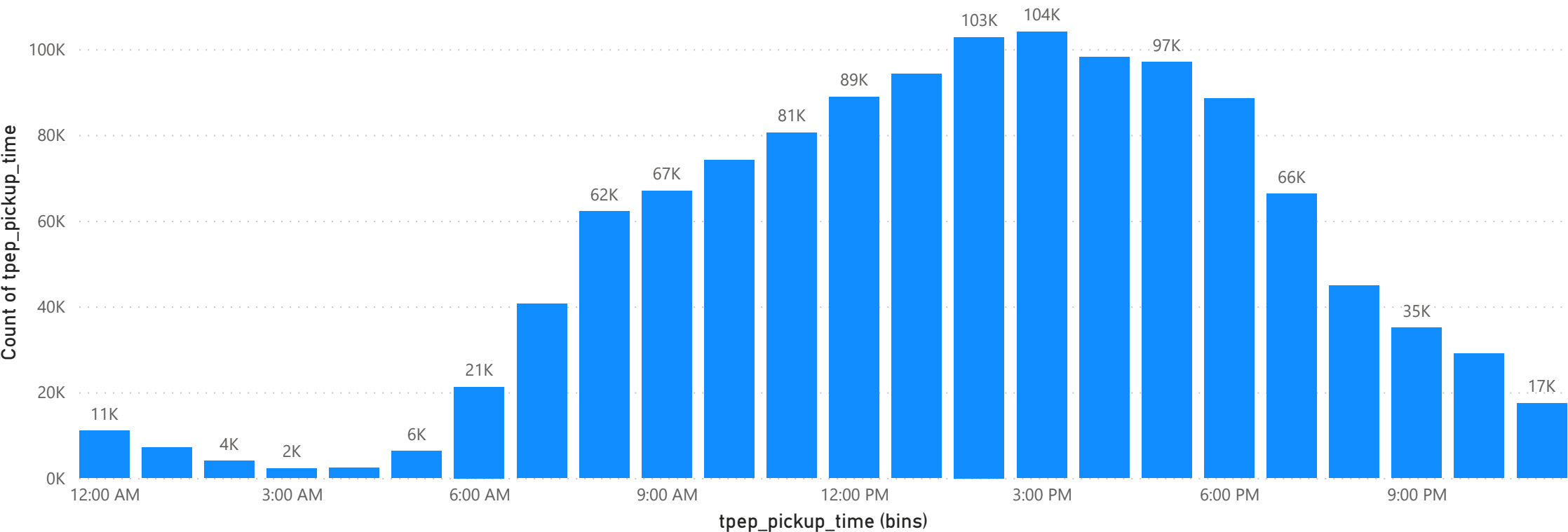
☐ VeriFone Inc.

# Busiest time of the day

1.24M

Count of tpep\_pickup\_time

Count of tpep\_pickup\_time by tpep\_pickup\_time (bins)



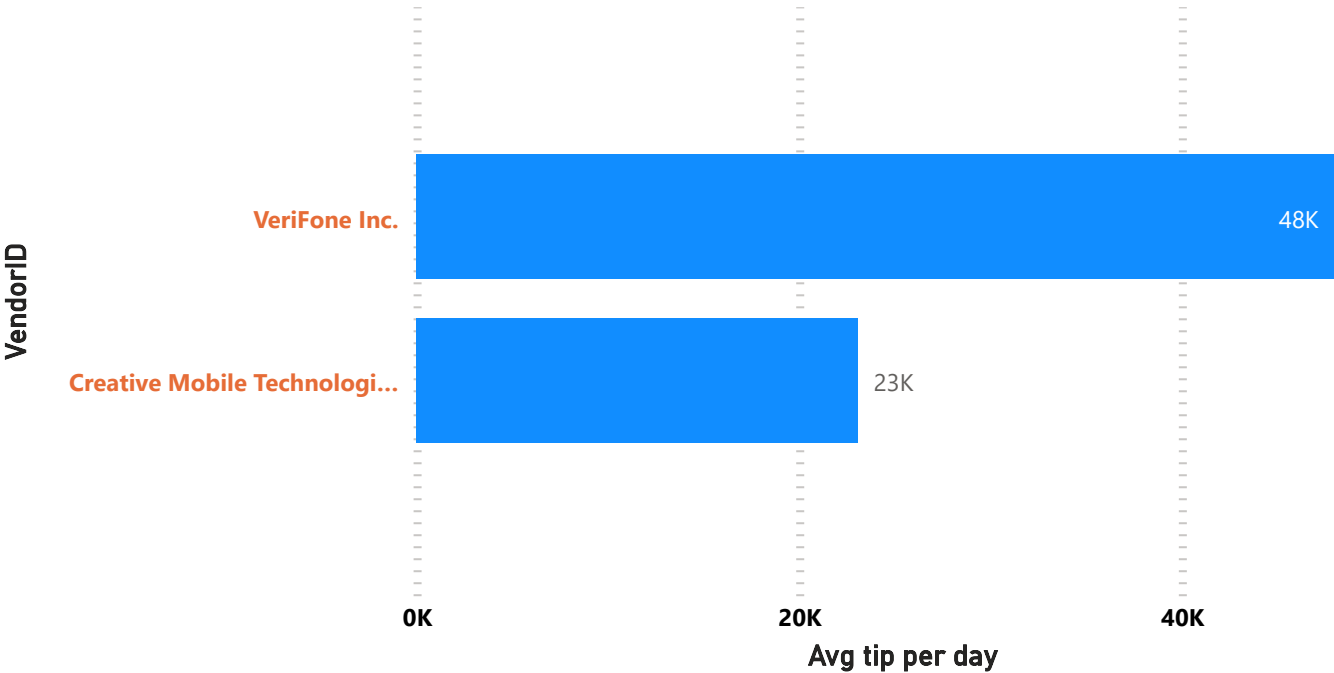
Hence, the above chart shows that the busiest time of the day for any particular vendor is 3pm, 2pm, and 4pm.

2.44M

tip\_amount

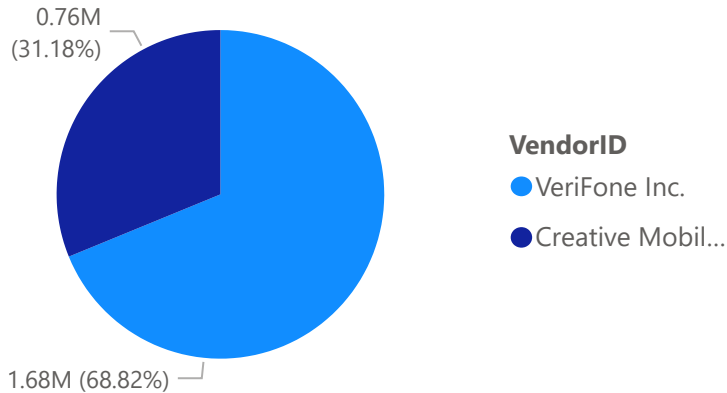
# Average tip amount of a vendor per day

Avg tip per day by VendorID

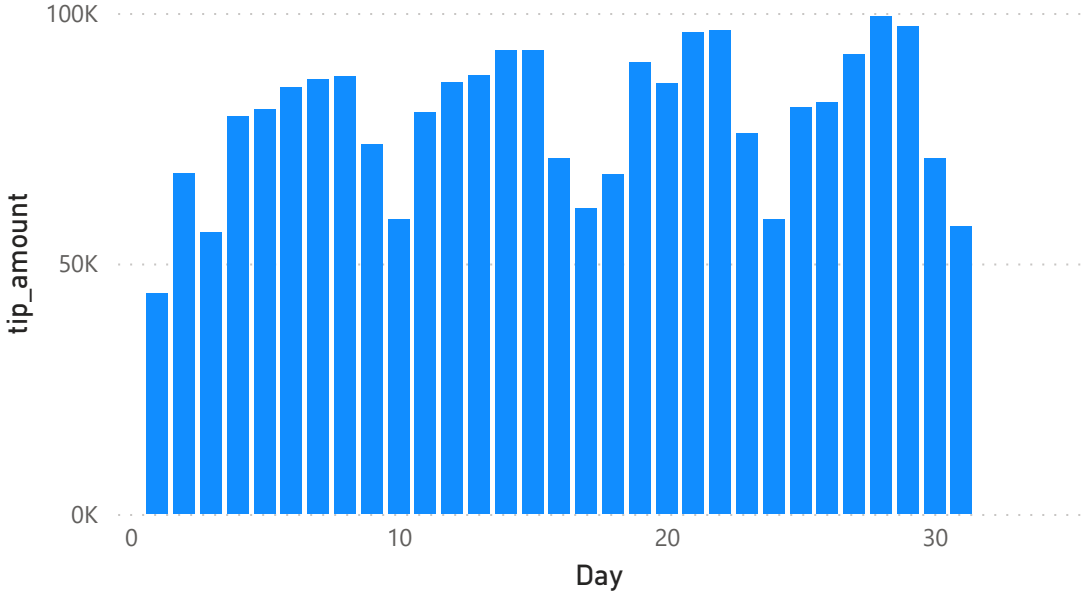


The average tip received by a CreativeMobile vendor during the day is \$23070.13, however, the average tip received by a VeriFone vendor during the day is \$48000.16.

tip\_amount by VendorID

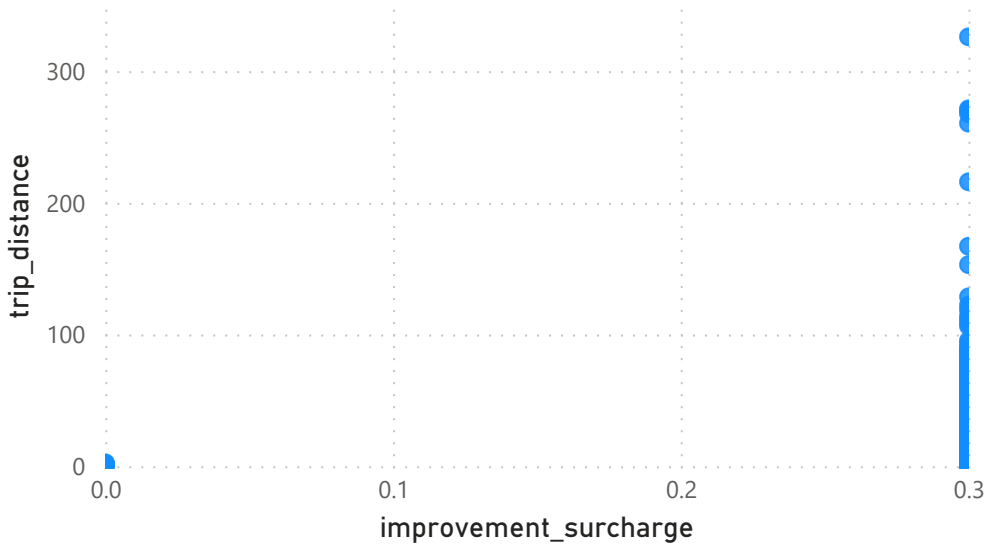


tip\_amount by Day



# Congestion surcharge Vs Trip distance

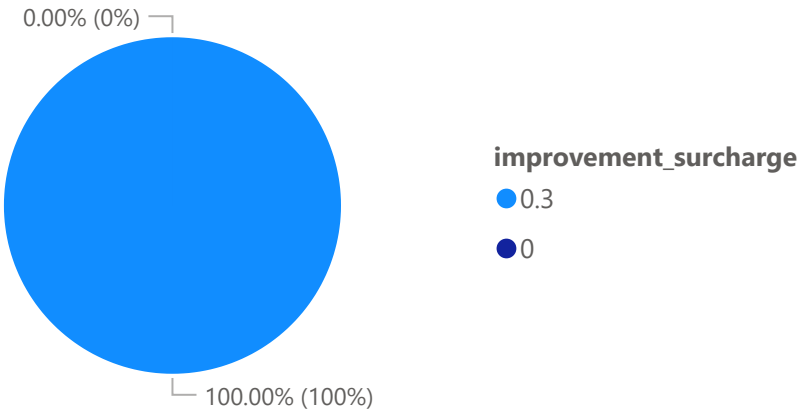
improvement\_surcharge and trip\_distance



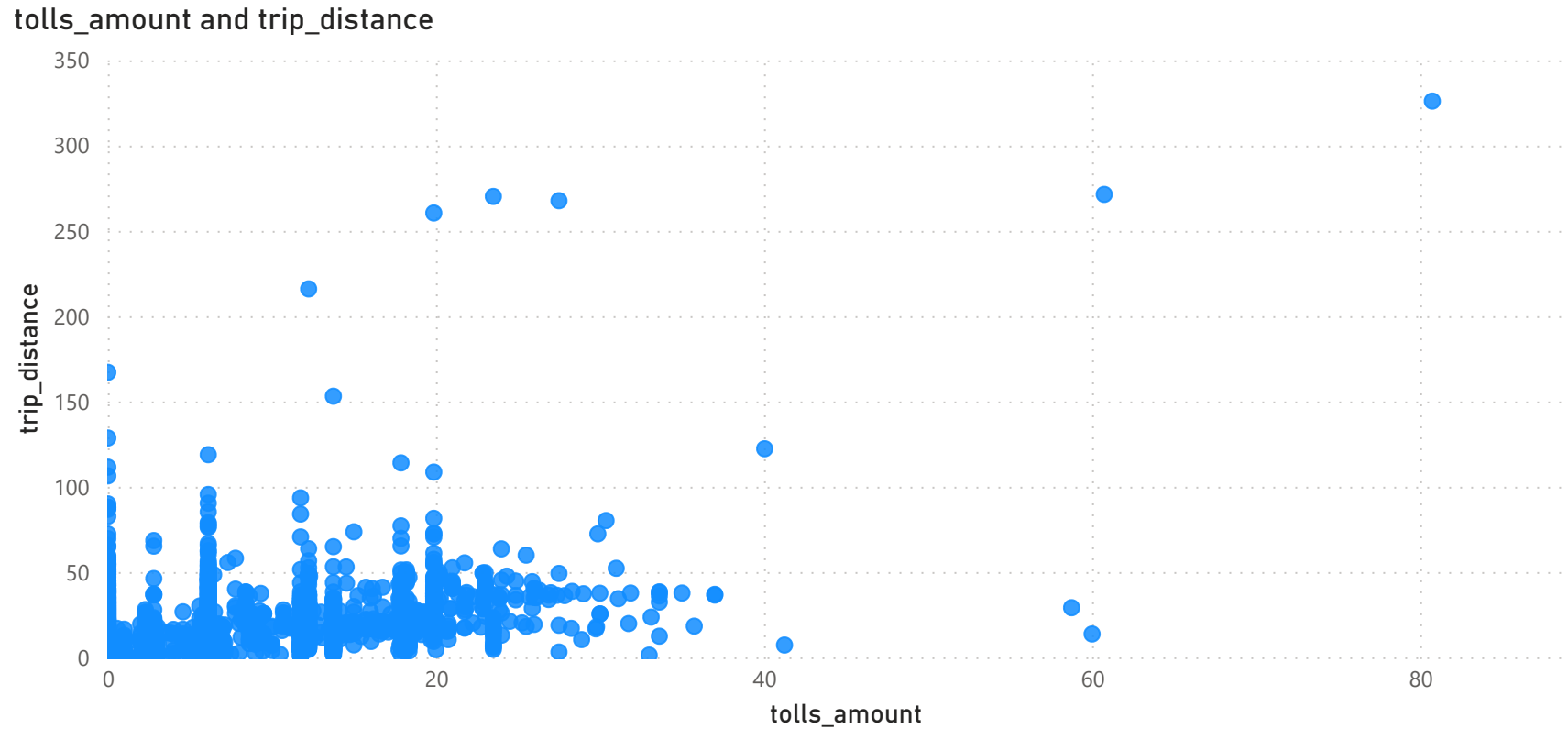
Almost all the trips have an improvement surcharge of \$0.3.

trip_distance	0.00	0.30	Total
0.10		228.50	228.50
0.20	0.40	937.40	937.80
0.30		3,118.80	3,118.80
0.40	0.40	9,419.60	9,420.00
0.50		15,837.00	15,837.00
0.60		28,316.40	28,316.40
0.70	0.70	33,747.00	33,747.70
0.80		47,678.40	47,678.40
0.90		46,711.80	46,711.80
1.00		59,391.00	59,391.00
1.10		54,920.80	54,920.80
Total	9.40	3,298,650.20	3,298,659.60

%GT Count of improvement\_surcharge by improvement\_surcharge

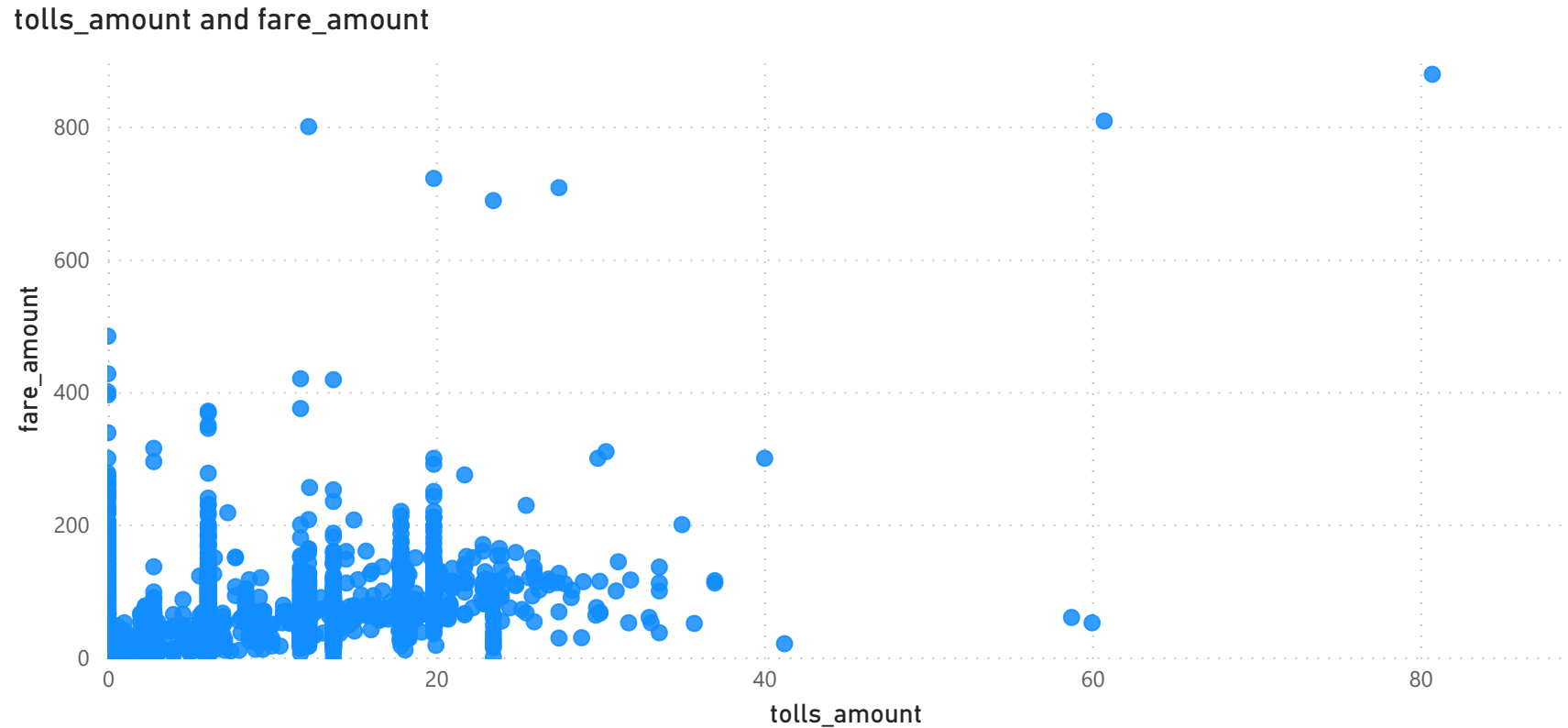


# tolls\_amount and trip\_distance



**We can see a positive linear correlation between tolls\_amount and trip\_distance.**

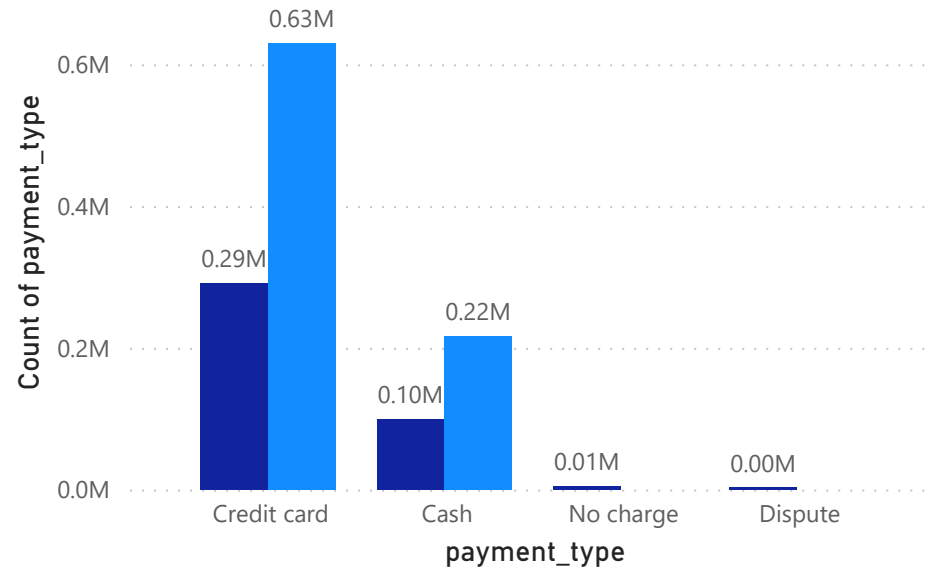
# tolls\_amount and fair\_amount



# Payment\_type VS VendorID & RatecodeID VS VendorID

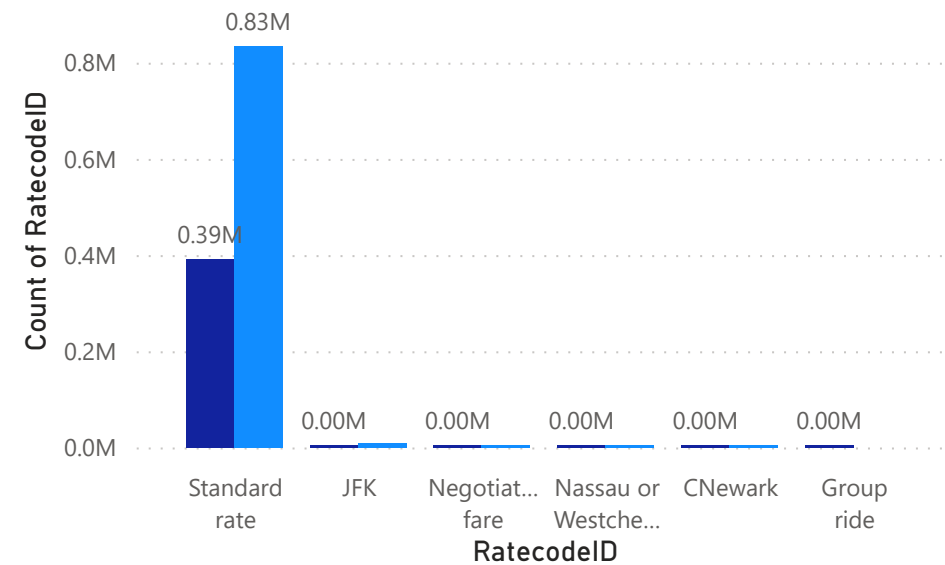
Count of payment\_type by payment\_type and VendorID

VendorID ● Creative Mobile Technologies, LLC ● VeriFone Inc.



Count of RatecodeID by RatecodeID and VendorID

VendorID ● Creative Mobile Technologies, LLC ● VeriFone Inc.

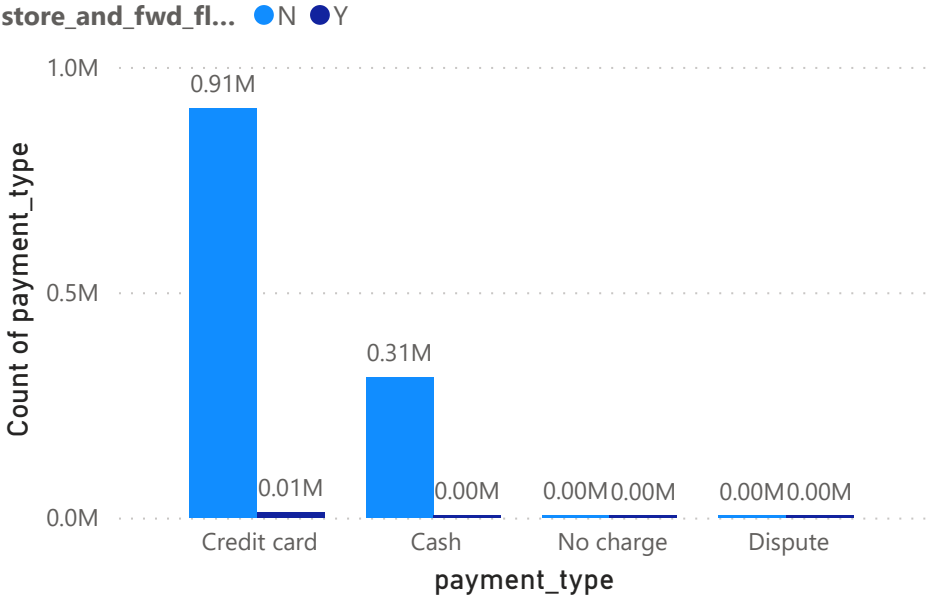


**Hence, VeriFone VendorID got almost double trips than CreativeMobile VendorID.**

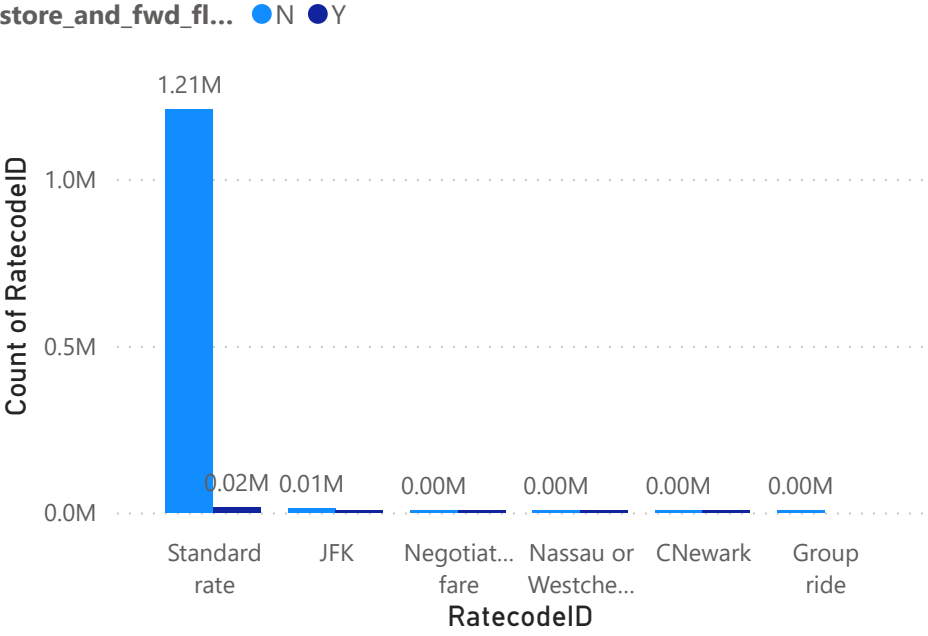


# Payment\_type VS VendorID & RatecodeID VS store\_and\_fwd\_flag

Count of payment\_type by payment\_type and store\_and\_fwd\_flag



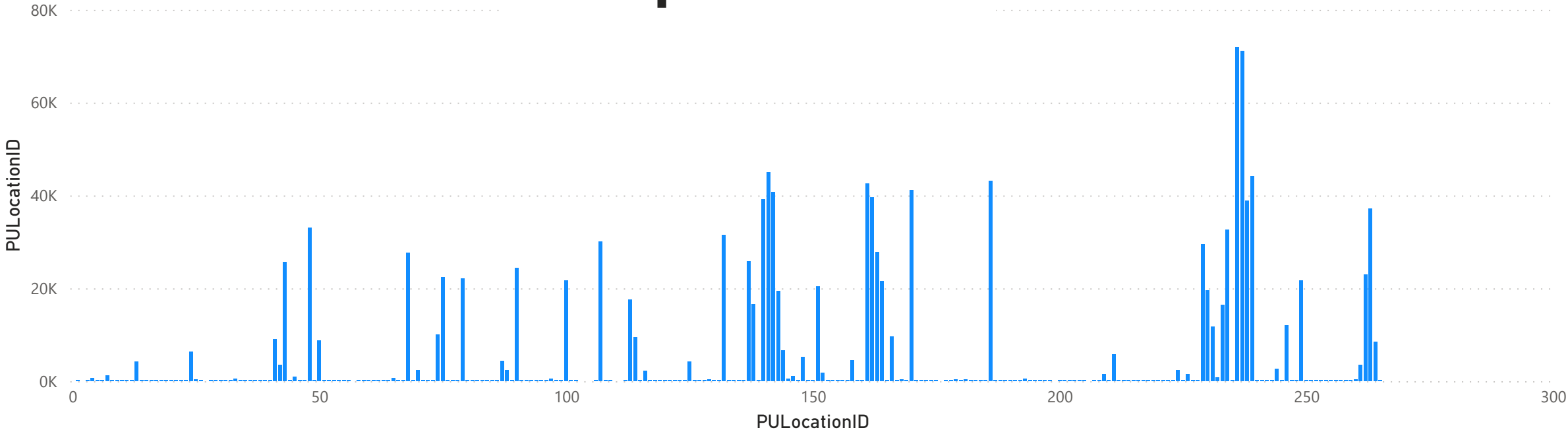
Count of RatecodeID by RatecodeID and store\_and\_fwd\_flag



Hence, almost all trips were not a "store\_and\_fwd\_flag".

# Pickup LocationID

PULocationID by PULocationID



13.66M

fare\_amount

214.22K

tolls\_amount

2.44M

tip\_amount

Count of passenger\_count by passenger\_count

