

Tableau - churn (1)

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics

Pages Columns Rows Day Calls Day Charge Day Mins SUM(CustServ Calls) SUM(Intl Mins)

Filters VAR(Churn)

Marks Automatic Color Size Label Detail Tooltip Prob

Sheet 3 (2)

Day Calls	Day Charge	Day Mins	CustServ Ca..	Intl Mins
77	32.18	189.3	4	16.6
90	24.48	144	1	25.3
92	34.03	200.2	3	14.8
93	30.48	179.3	4	23.6
	37.03	217.8	4	21.7
95	24.09	141.7	0	19
98	22.3	131.2	4	18.4
	25.5	150	4	23.6
102	21.08	124	3	24
	24.75	145.6	1	23.6
	28.8	169.4	2	10.9
103	14.91	87.7	3	17.8
104	26.2	154.1	4	20.7
108	26.59	156.4	6	16.3
	32.93	193.7	1	22.4
110	31.94	187.9	4	15
114	19.94	117.3	3	26.6
117	31.45	185	2	20
125	10.01	58.9	1	21.5
130	26.25	154.4	1	25.7

VAR(Churn)
0.00000 0.04930
D

AGG(Prob)
7.884924082e-33 924083e

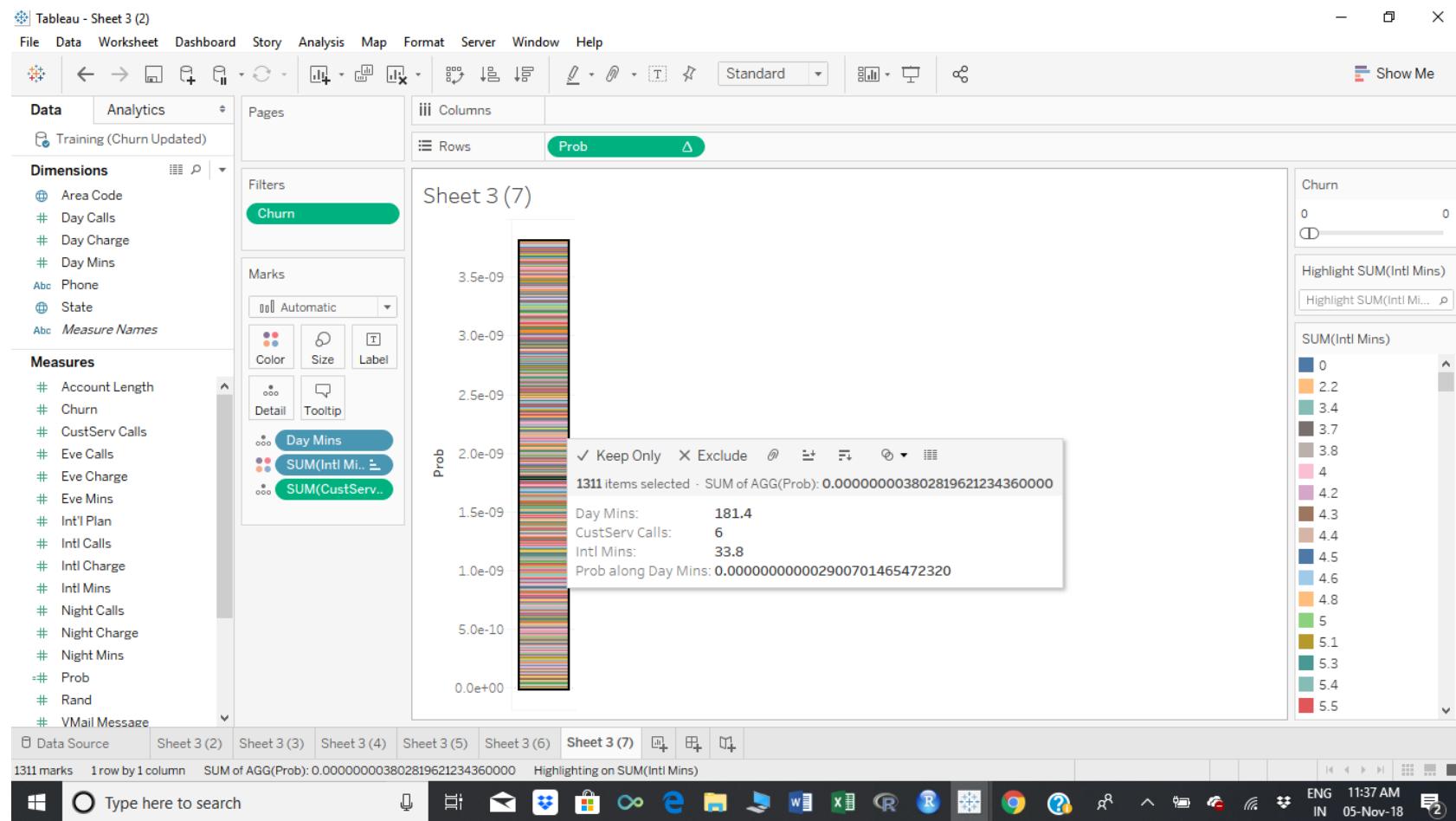
Day Calls: 93
Day Charge: 30.48
Day Mins: 179.3
CustServ Calls: 4
Intl Mins: 23.6
Prob along Table (Down): 0.000000000078849240833900300

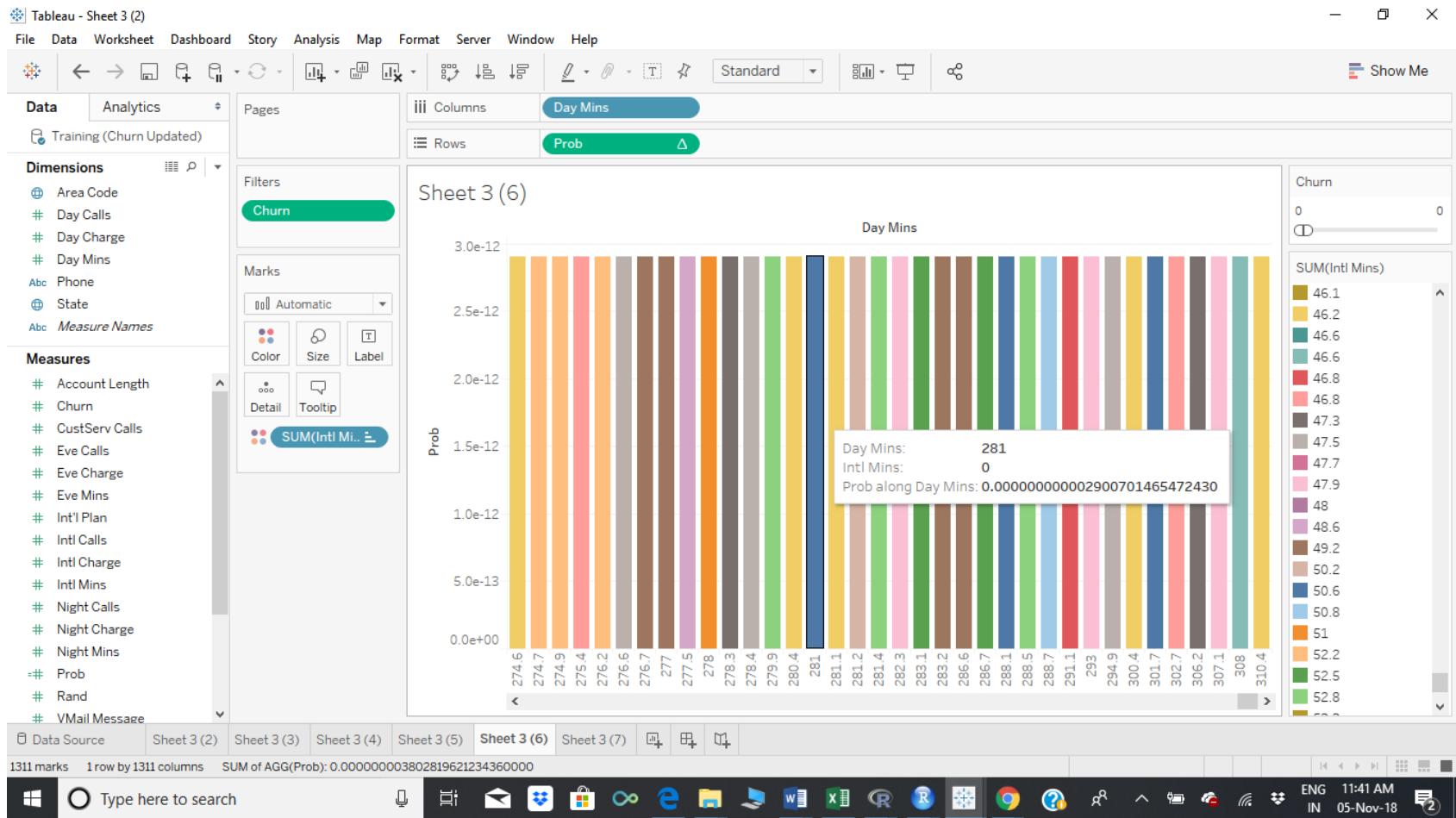
Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 3 (2) Sheet 4

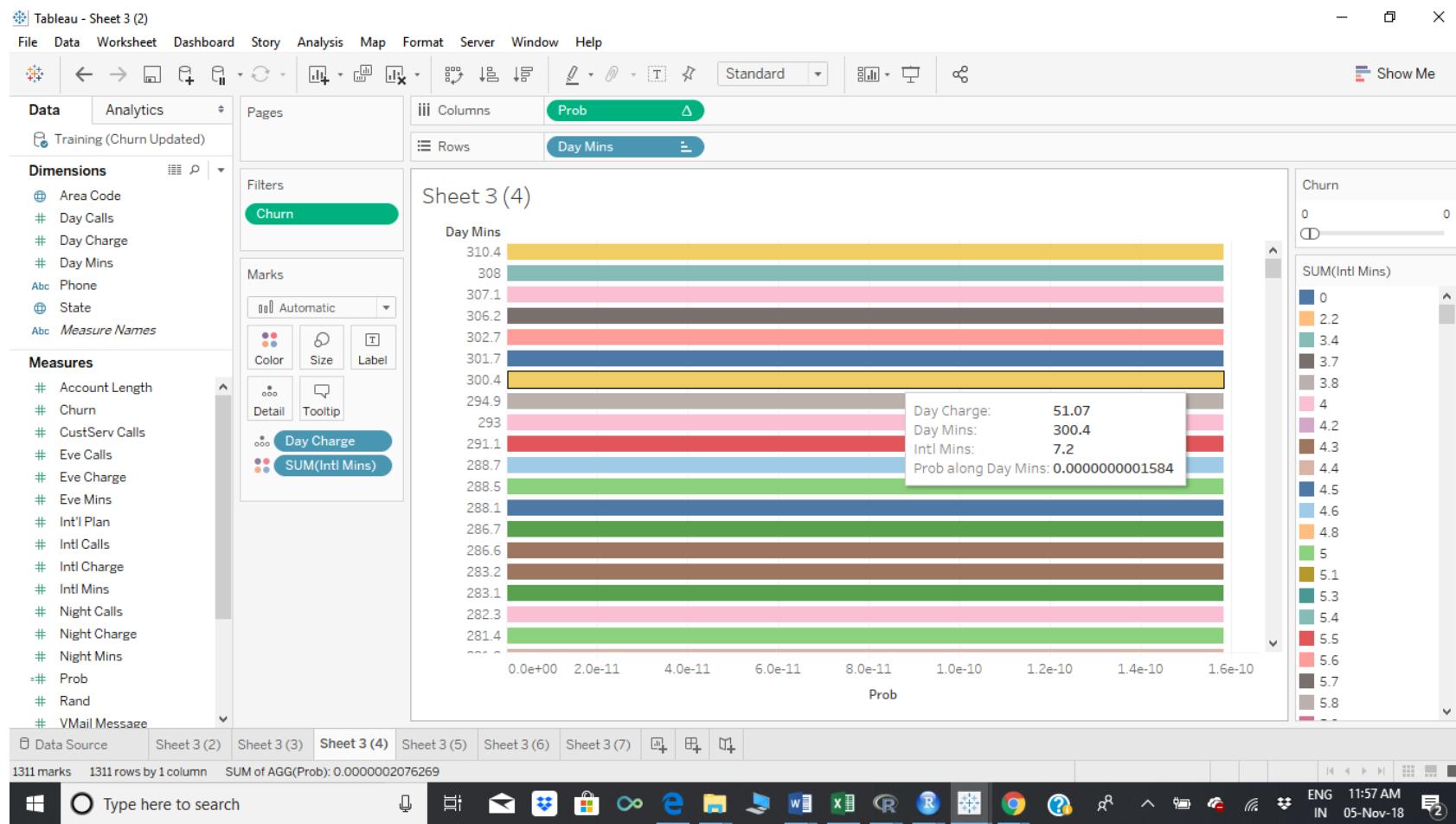
20 marks 20 rows by 1 column SUM of AGG(Prob): 0.0000000001576984816678010000

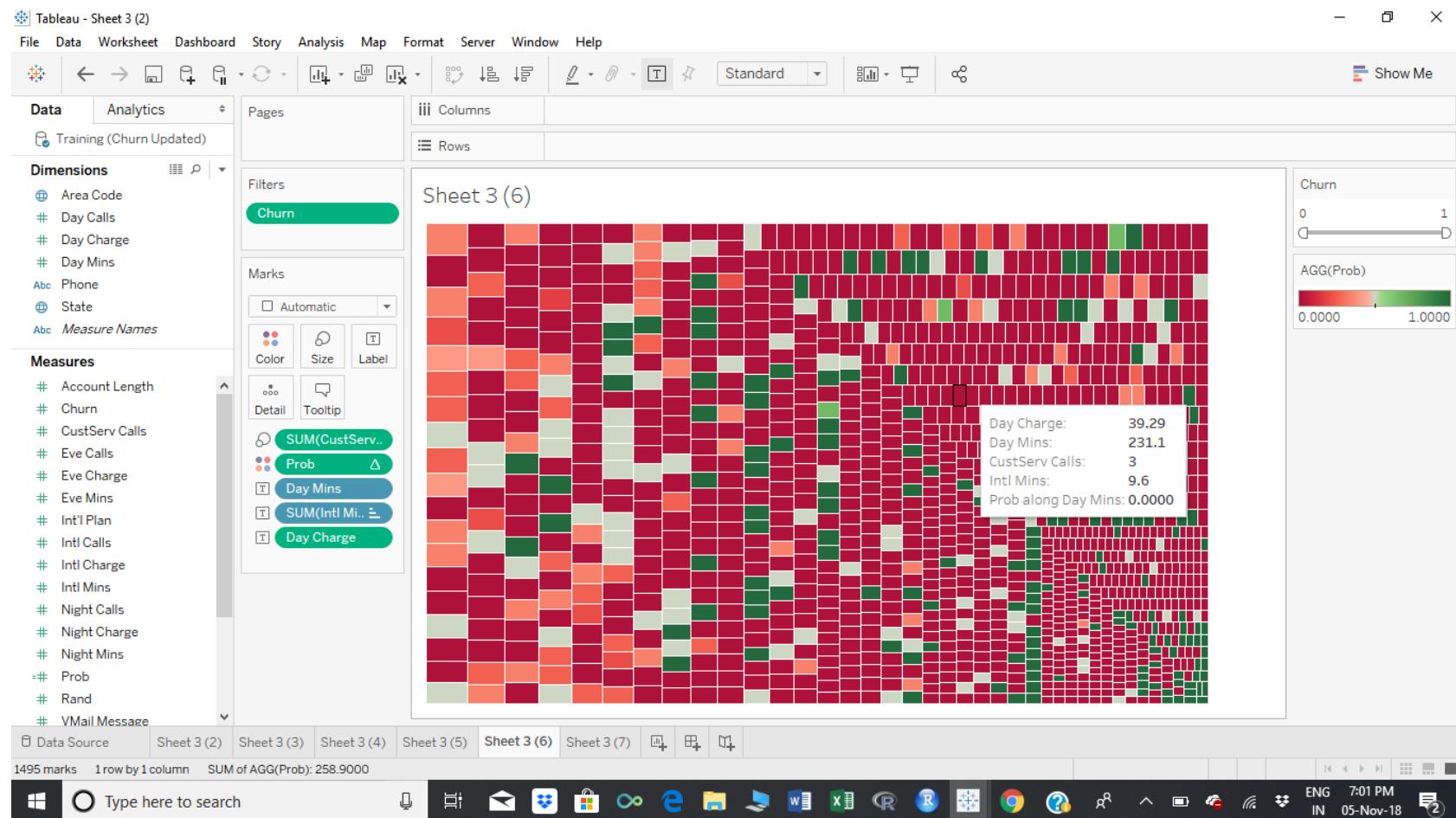
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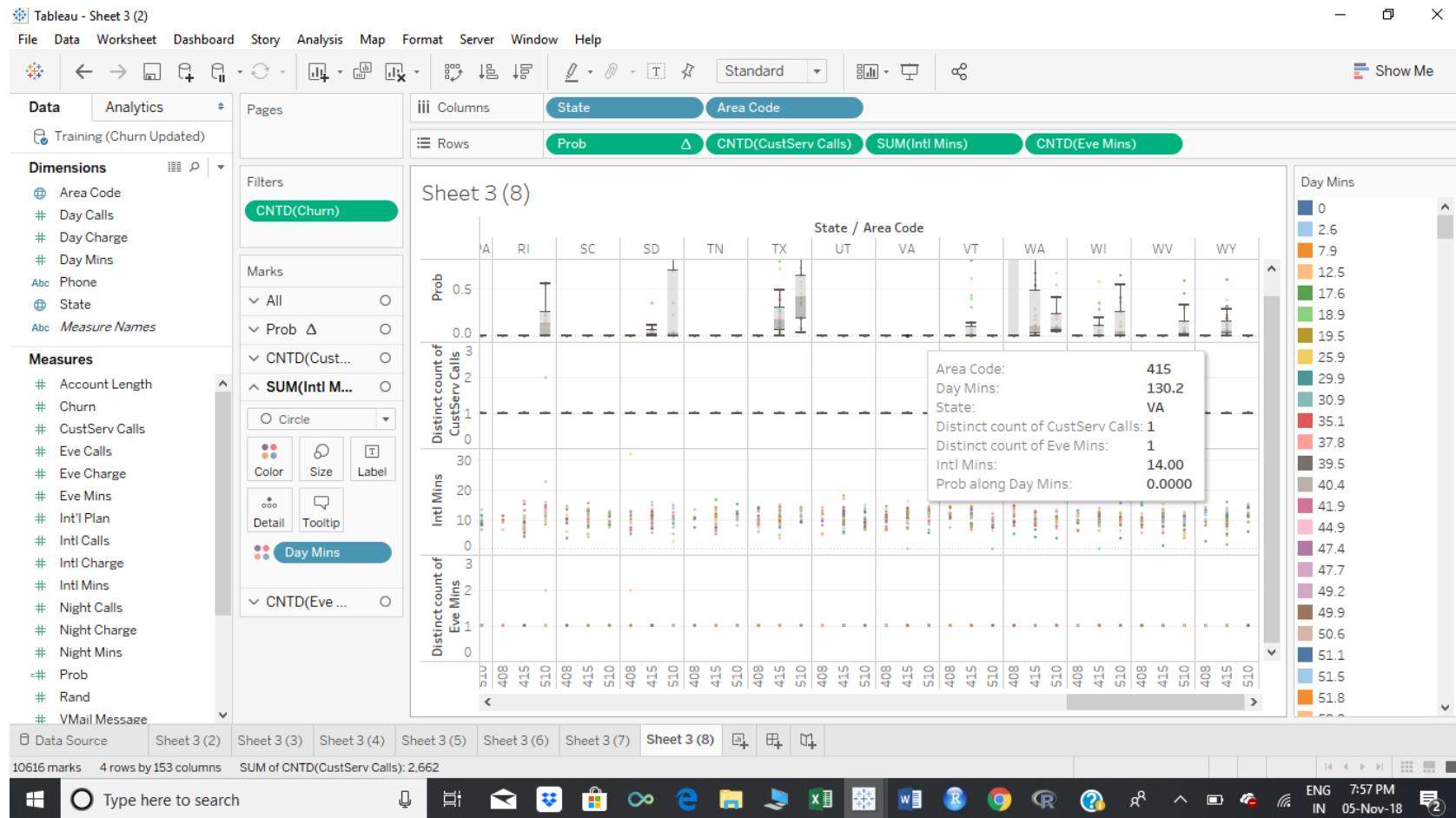
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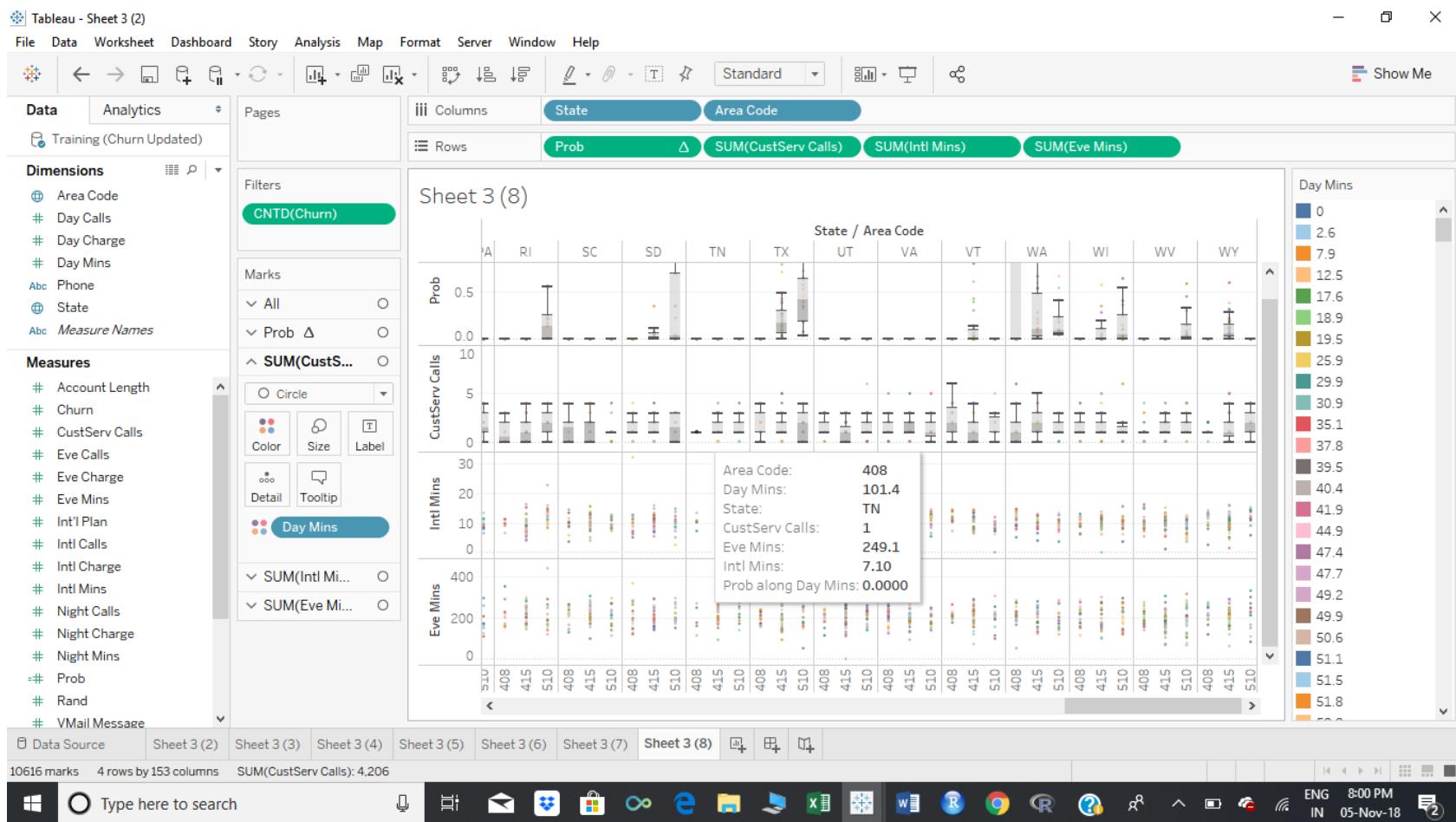


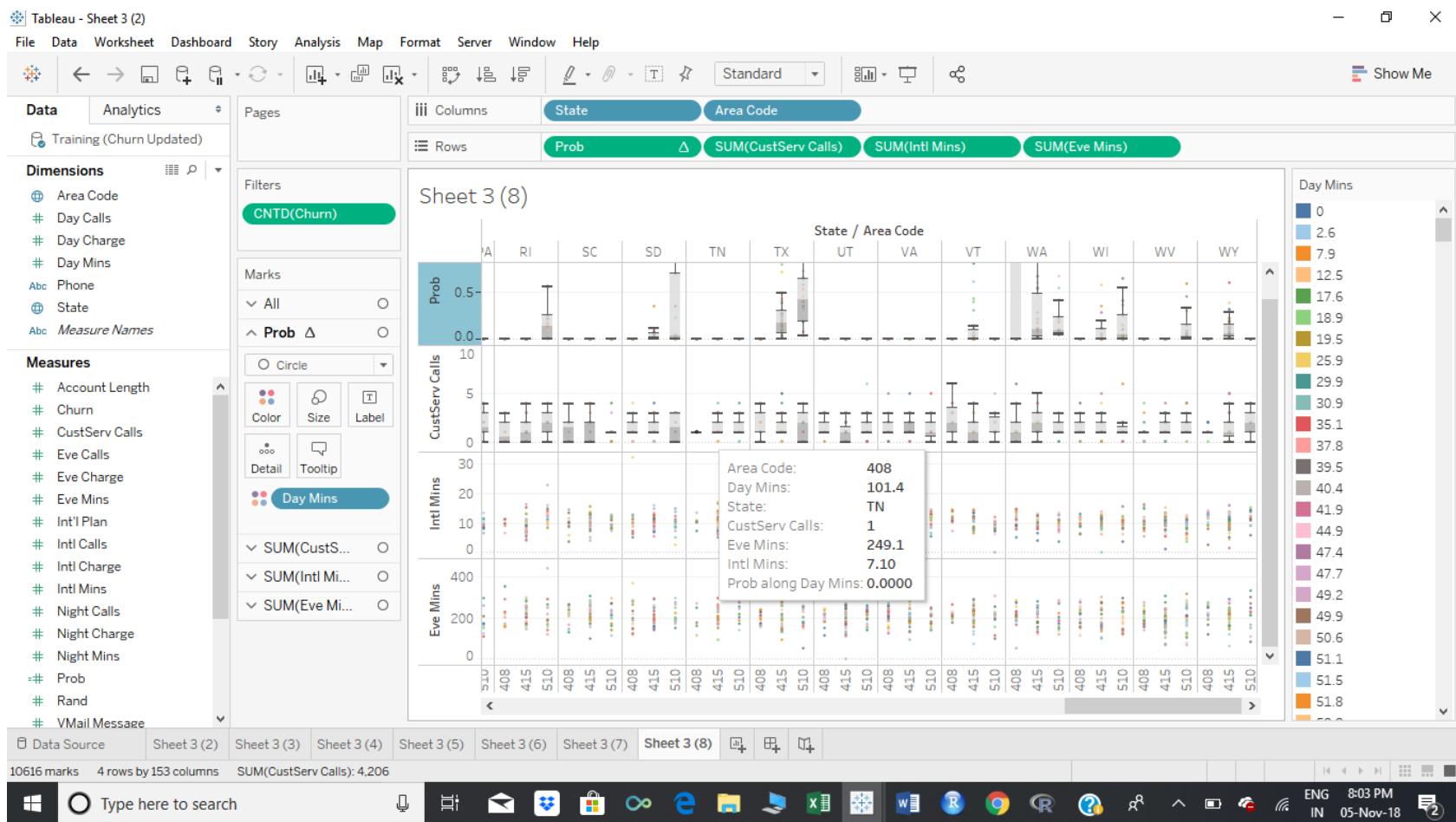


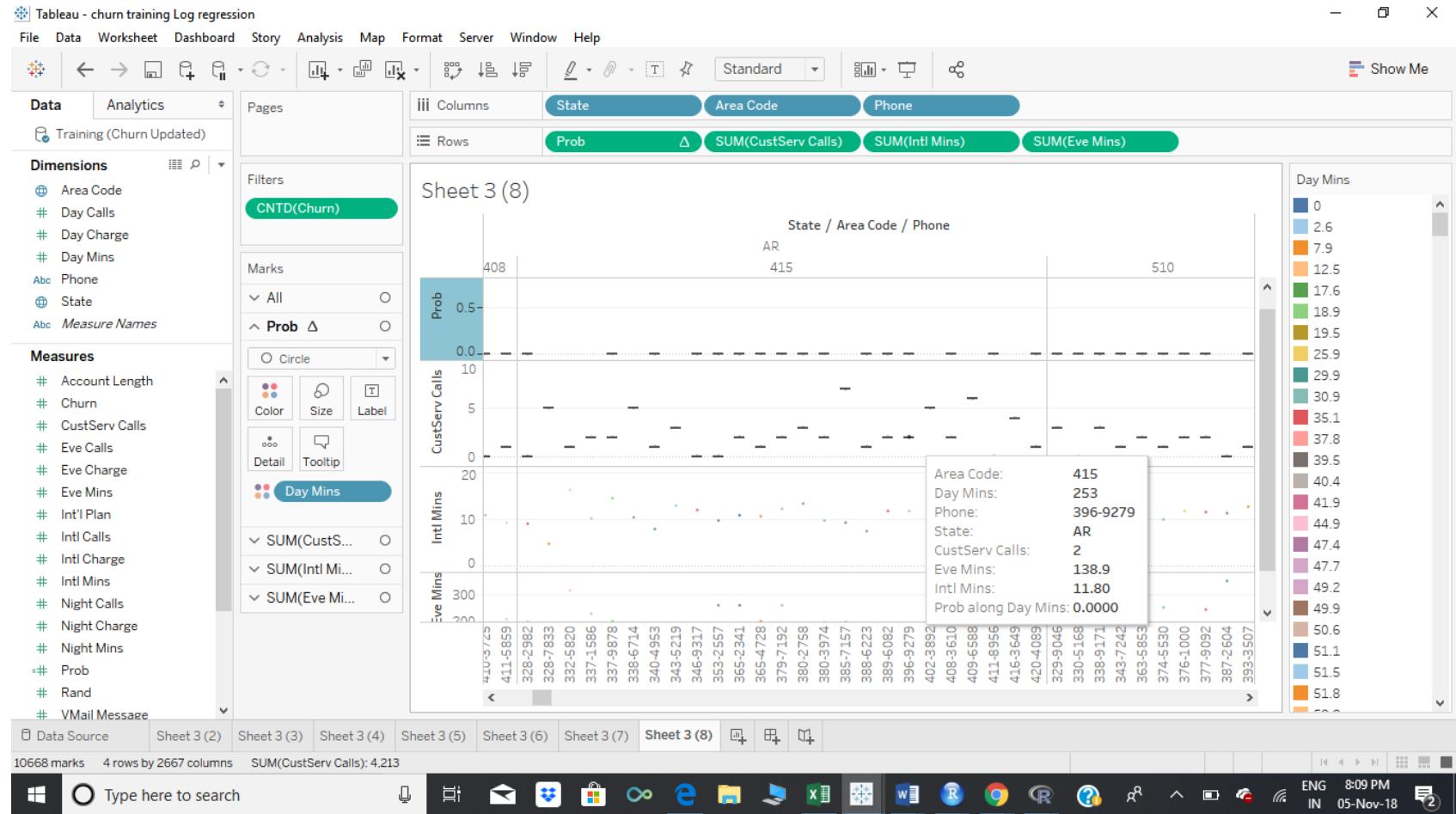


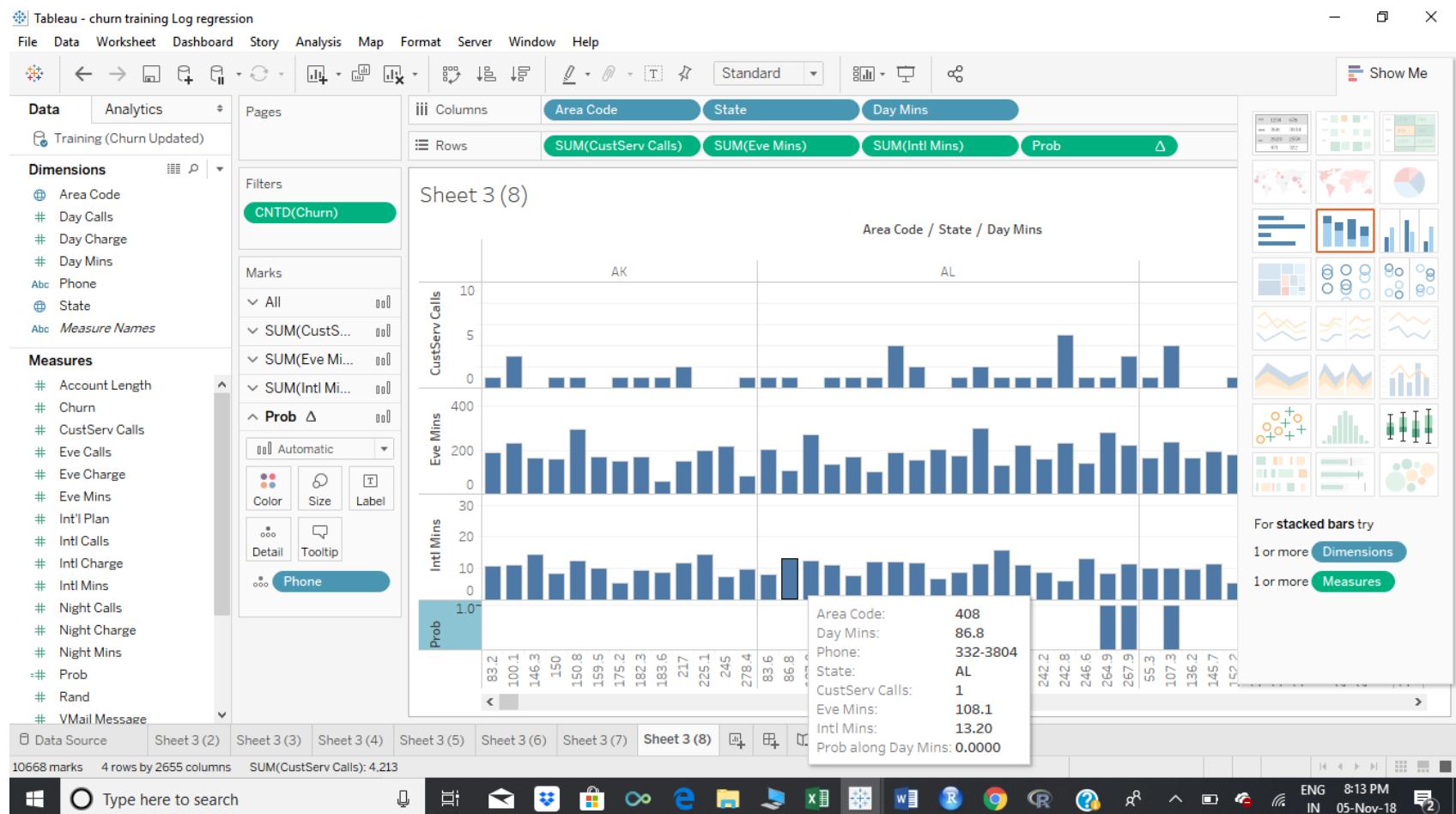












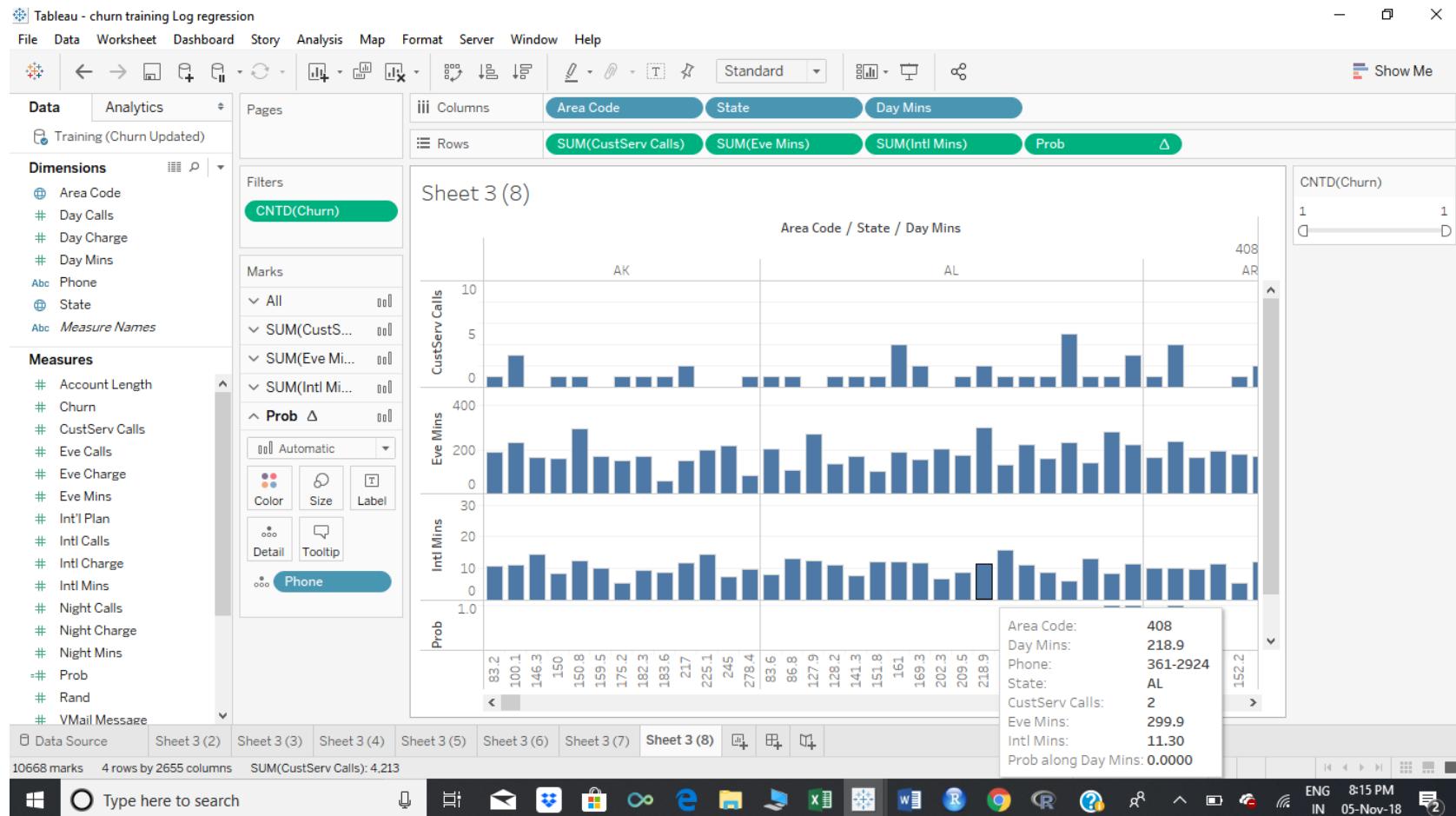


Tableau - Book2

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics Pages Columns prob

Testing (Churn Updated)

Dimensions

- Area Code
- Day Calls
- Day Charge
- Day Mins
- Phone
- State
- Measure Names

Measures

- Account Length
- Churn
- CustServ Calls
- Eve Calls
- Eve Charge
- Eve Mins
- Int'l Plan
- Intl Calls
- Intl Charge
- Intl Mins
- Night Calls
- Night Charge
- Night Mins
- prob
- Rand
- VMail Message

Filters Churn

Marks Automatic Color Size Label Detail Tooltip

Sheet 1

Eve Mins	Day Charge	Intl Mins	CustServ Ca..	State	Phone
7.8,171.4	1.33	12.9	2	OH	406-4158
27,160.9	4.59	10.7	3	KS	381-9367
34,278.6	5.78	11.5	0	NE	337-1225
37.7,144.1	6.41	4.9	1	WA	335-5806
40.9,133.4	6.95	11.9	0	NJ	379-6652
45,151.3	7.65	9.8	2	MO	364-1969
48.4,281.1	8.23	18.2	1	NE	408-3532
51.9,162	8.82	10.1	3	CT	367-3648
54,179.3	9.18	10.2	1	MN	399-4800
54.8,173	9.32	7.5	1	TN	418-6512
55.6,242.7	9.45	11.3	0	ID	384-8629
58.2,202.1	9.89	10.4	0	NE	391-2334
60,102.2	10.2	11.1	0	RI	385-8240
60.6,165.9	10.3	13.3	0	NY	396-7687
68.4,193.3	11.63	10.4	0	NH	390-4003
68.7,209.2	11.68	11.4	1	AL	331-8909
69.1,136.3	11.75	6.3	1	IL	379-2514
69.1,230.3	11.75	6.5	0	NM	382-7999
70.9,166.7	12.05	11.1	3	AZ	392-2381

Day Charge: 4.59
 Day Mins: 27
 Phone: 381-9367
 State: KS
 CustServ Calls: 3
 Eve Mins: 160.9
 Intl Mins: 10.7
 prob along Table (Down): 0.0000000000029007014654698500

5.0e-13 1.0e-12 1.5e-12 2.0e-12 2.5e-12 prob

Data Source Sheet 1

572 marks 572 rows by 1 column SUM of AGG(prob): 0.000000016592012382485100000

Type here to search

Tableau - Book2

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics

Testing (Churn Updated)

Dimensions

- Area Code
- Day Calls
- Day Charge
- Day Mins
- Phone
- State
- Measure Names

Measures

- Account Length
- Churn
- CustServ Calls
- Eve Calls
- Eve Charge
- Eve Mins
- Int'l Plan
- Intl Calls
- Intl Charge
- Intl Mins
- Night Calls
- Night Charge
- Night Mins
- prob
- Rand
- VMail Message

Pages

Columns prob

Rows Day Mins SUM(Eve Mins) Day Charge SUM(Intl Mins) SUM(CustServ ..) State Phone

Filters Churn

Marks Automatic

Color Size Label

Detail Tooltip

Sheet 1

Eve Mins	Day Charge	Intl Mins	CustServ Ca..	State	Phone
283.9, 192	48.26	10	1	FL	376-4484
286.6, 223.2	48.72	11.5	1	NY	348-6853
287.1, 178.4	48.81	14.4	3	MD	346-5068
287.3, 288	48.84	10.5	0	MO	355-2464
289.5, 166.6	49.22	9.5	1	OK	408-6496
292.9, 199.7	49.79	13.8	4	ME	353-7292
295.3, 127.4	50.2	9.6	1	ND	342-1960
298.4, 270.5	50.73	12.2	0	NH	357-1938
299.4, 61.9	50.9	6.6	2	OH	375-9999
299.5, 163.4	50.92	11.6	0	IA	341-6743
299.5, 226.7	50.92	13.7	0	GA	372-6497
300.3, 181	51.05	11.7	0	DC	374-5353
301.5, 257.7	51.26	13.4	4	NJ	347-8659
303.9, 260.9	51.66	5.3	1	OK	352-6976
305.2, 156.5	51.88	13.2	1	TN	415-3016
309.9, 200.3	52.68	14.2	1	SD	351-7369
313.8, 147.7	53.35	10.1	3	NC	363-7802
315.6, 208.9	53.65	12.1	3	MN	338-7120
346.8, 249.5	58.96	13.3	1	NY	345-9140

Day Charge: 49.79
Day Mins: 292.9
Phone: 353-7292
State: ME
CustServ Calls: 4
Eve Mins: 199.7
Intl Mins: 13.8
prob along Table (Down): 0.6878

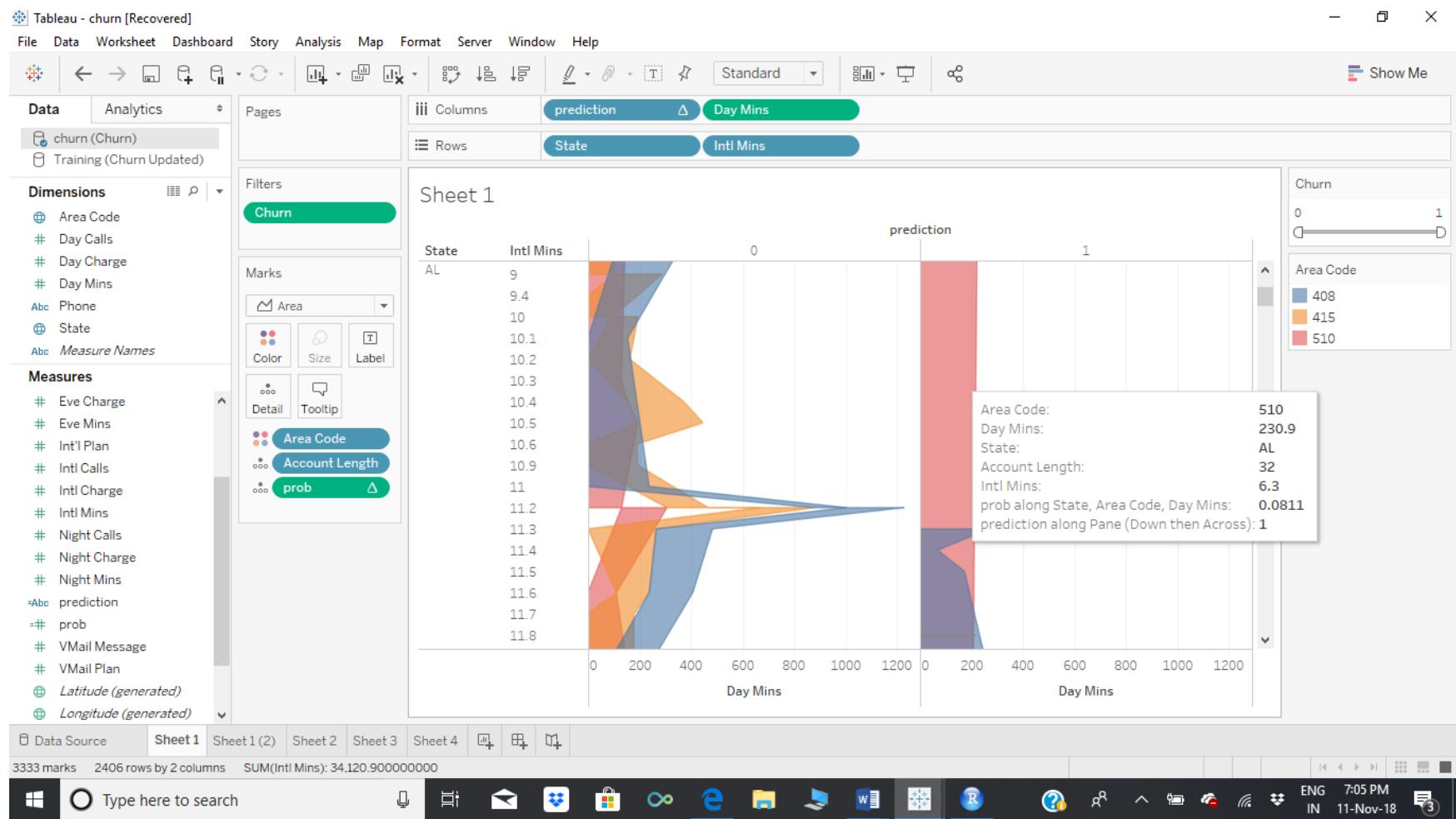
0.0 0.2 0.4 0.6 0.8 prob

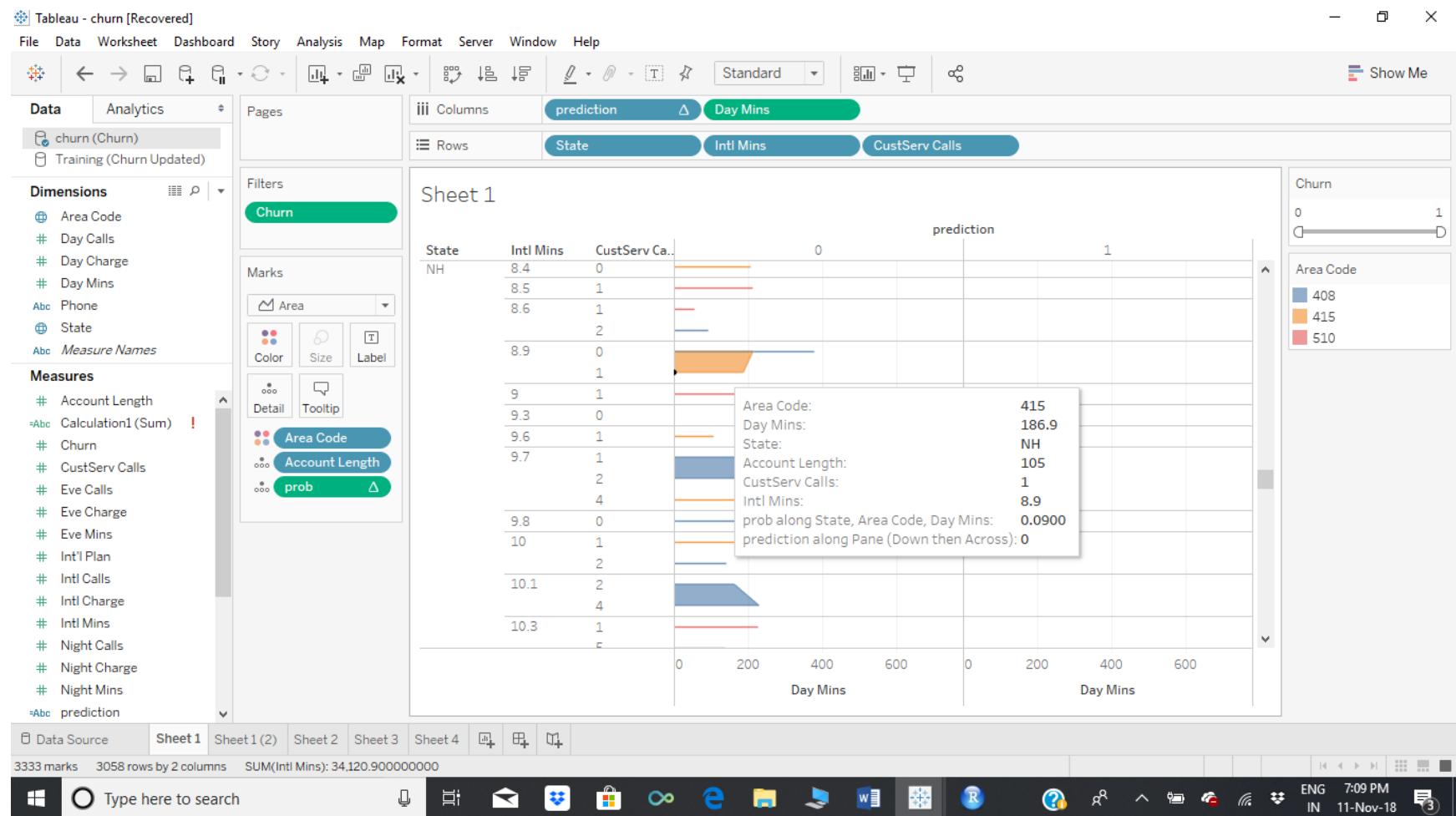
Data Source Sheet 1

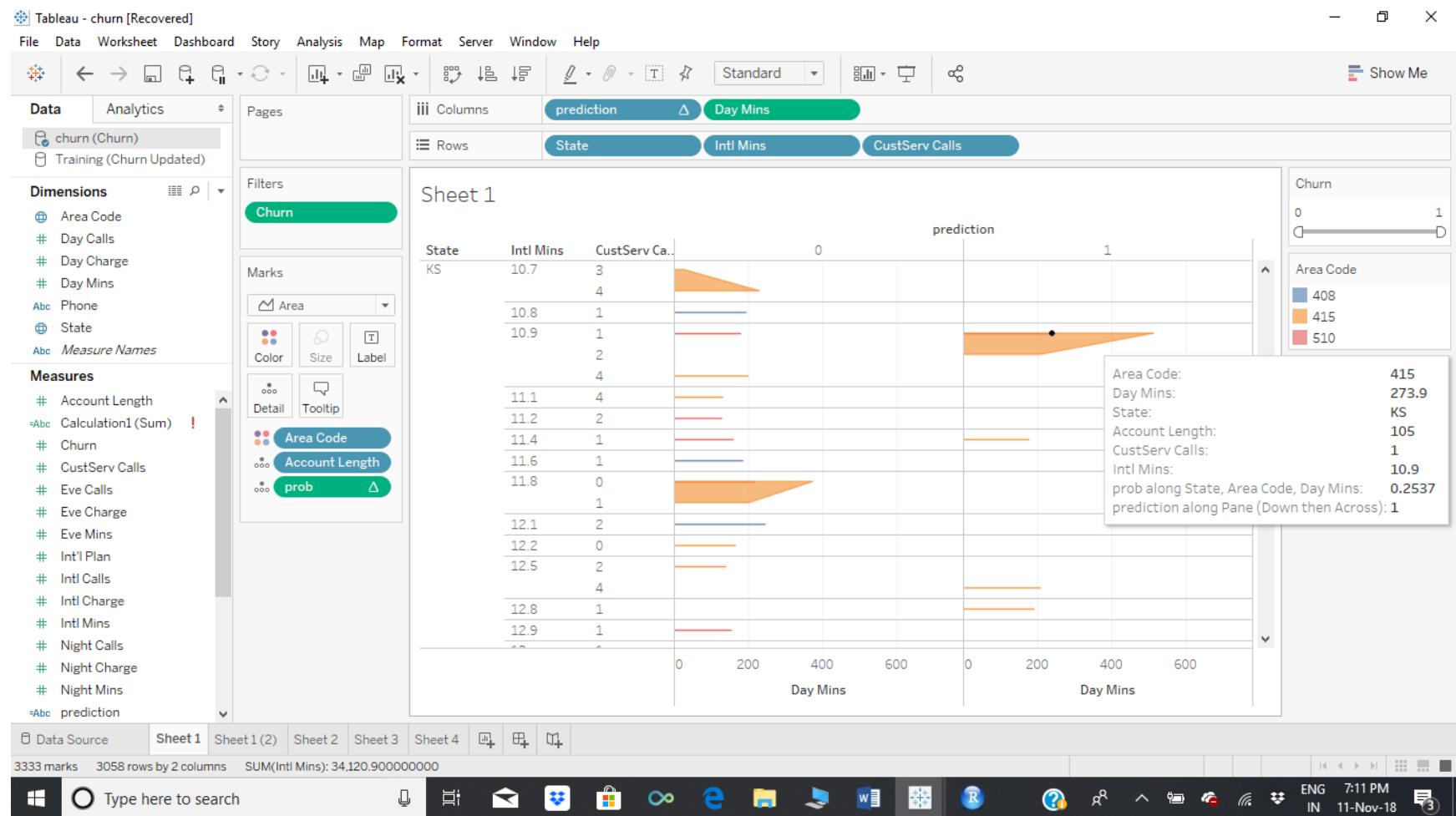
666 marks 666 rows by 1 column SUM of AGG(prob): 94.0000

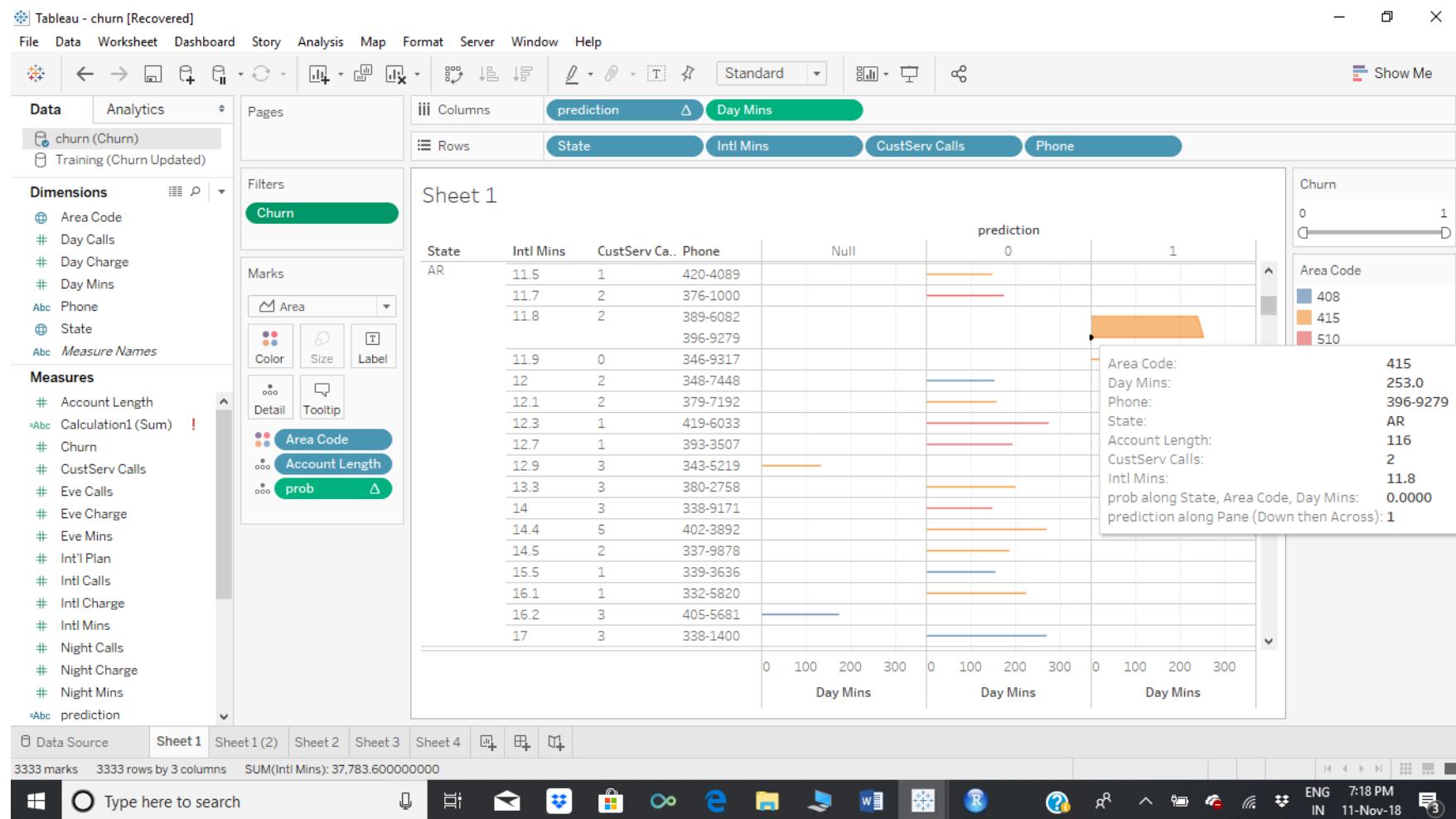
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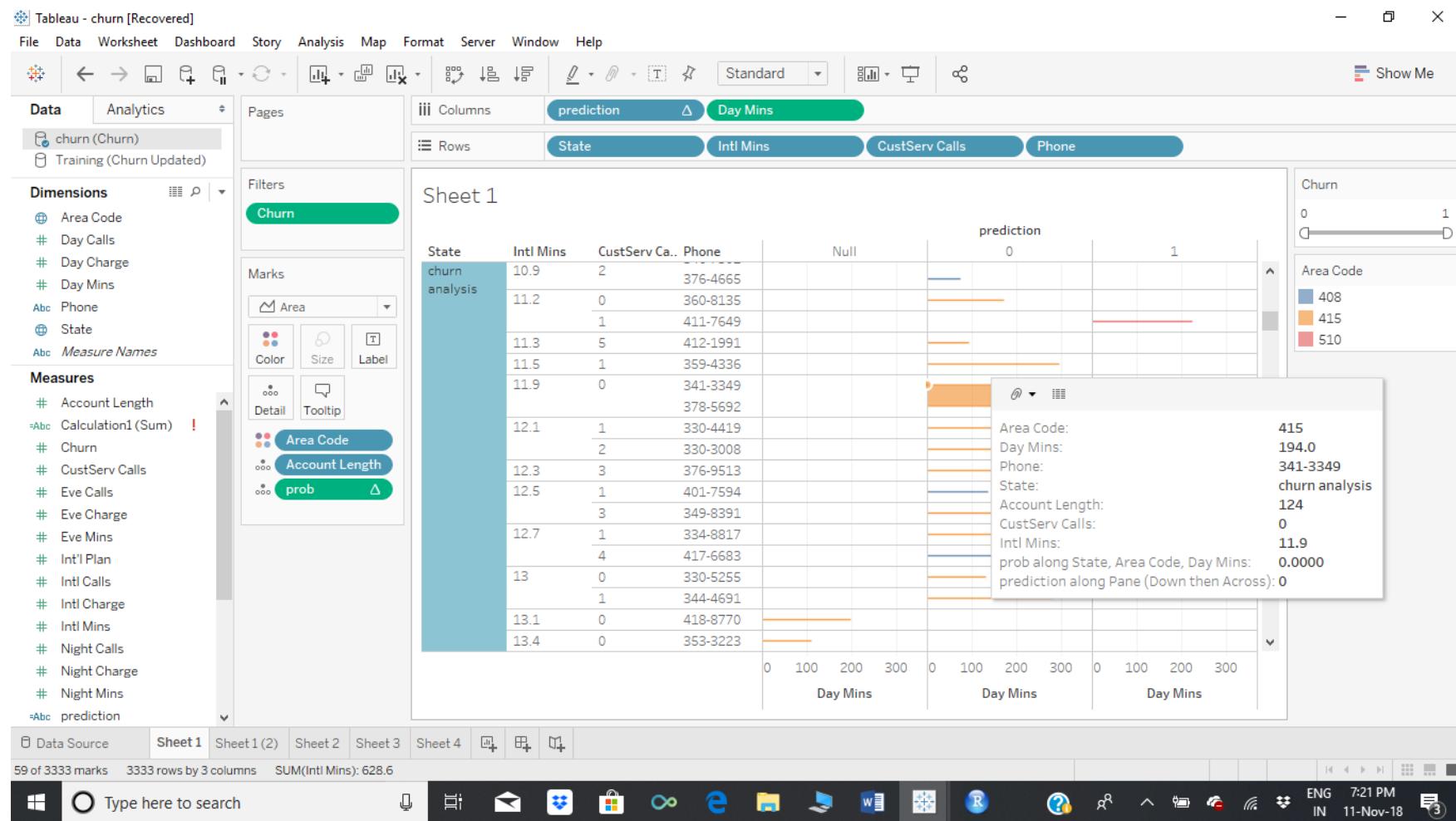
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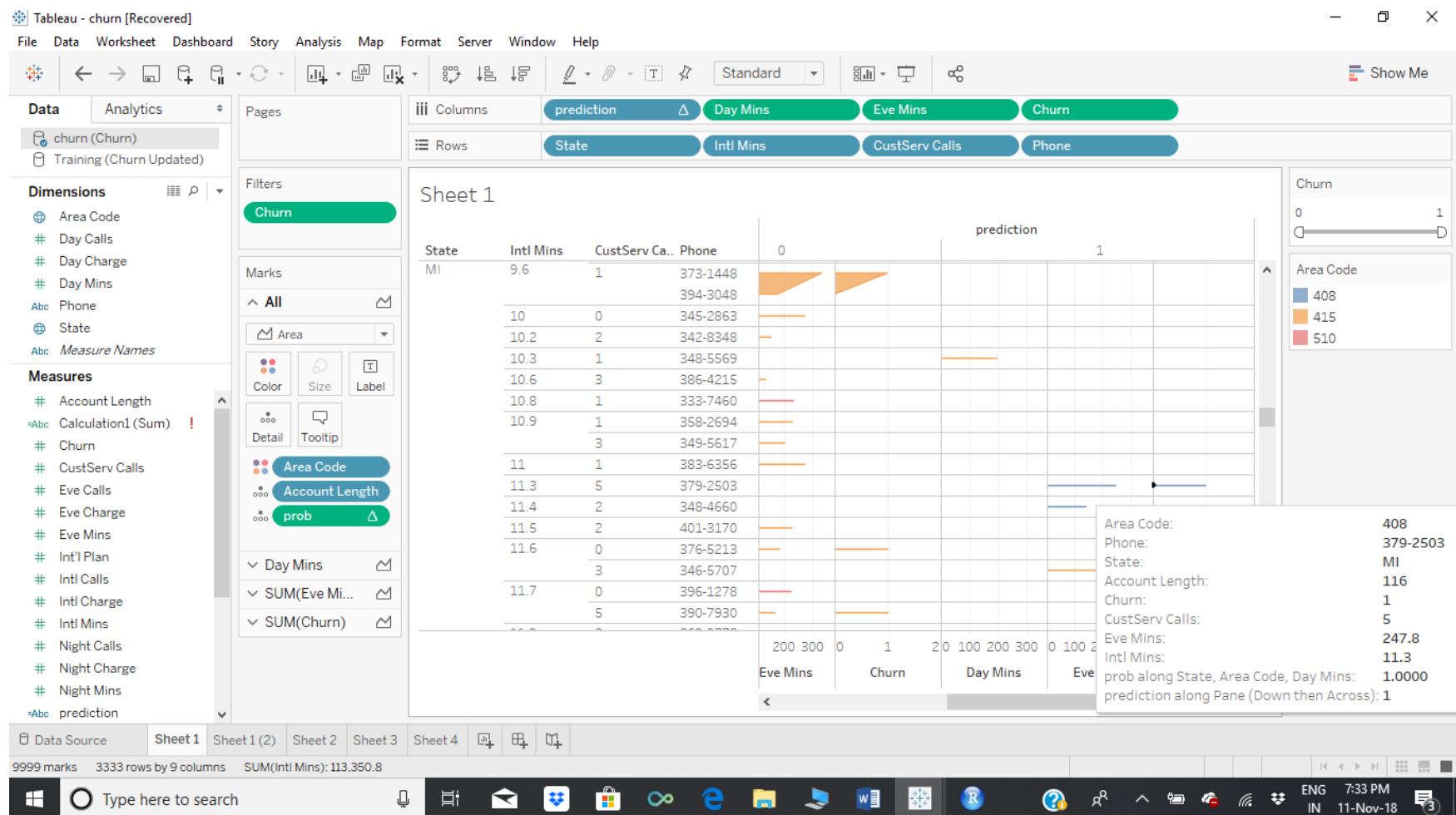


Tableau - churn [Recovered]

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

Pages Columns prediction Day M

Rows State Intl M

Churn

Filters

Marks All Area Color Size Label Detail Tooltip

Area Code Account Length prob

Day Mins SUM(Eve Mi... SUM(Churn)

State Intl Mins CustServ Ca.. Phone

State	Intl Mins	CustServ Ca..	Phone
MI	9.6	1	373-1448
			394-3048
	10	0	345-2863
	10.2	2	342-8348
	10.3	1	348-5569
	10.6	3	386-4215
	10.8	1	333-7460
	10.9	1	358-2694
		3	349-5617
	11	1	383-6356
	11.3	5	379-2503
	11.4	2	348-4660
	11.5	2	401-3170
	11.6	0	376-5213
		3	346-5707
	11.7	0	396-1278
		5	390-7930
			360-2770
			200 300 0 1 20 100 200 300 0 100 200 300 0 1
			Eve Mins Churn Day Mins Eve Mins Churn

prediction churn (Churn)

Results are computed along Table (across).

```

intl_Mins <- .arg3
set.seed(2017)

data_churn <- data.frame(churn, Day_Mins, intl_Mins)

intrain<-sample(1:nrow(data_churn), .7*nrow(data_churn))

training<- data_churn[intrain,]
testing<- data_churn[-intrain,]

```

Default Table Calculation

The calculation is valid. 2 Dependencies

Show Me

Churn

0 1

Area Code

408 415 510

9999 marks 3333 rows by 9 columns SUM(Intl Mins): 113,350.8

ENG 7:34 PM IN 11-Nov-18

Type here to search

Tableau - churn [Recovered]

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

churn (Churn)

Training (Churn Updated)

Dimensions

- Area Code
- Day Calls
- Day Charge
- Day Mins
- Phone
- State
- Measure Names

Measures

- Account Length
- Calculation1 (Sum) !
- Churn
- CustServ Calls
- Eve Calls
- Eve Charge
- Eve Mins
- Int'l Plan
- Intl Calls
- Intl Charge
- Intl Mins
- Night Calls
- Night Charge
- Night Mins
- prediction

Pages

Columns prediction Day M

Rows State Intl M

Filters

Churn

Marks

All Area

Color Size Label

Detail Tooltip

Area Code Account Length prob △

Day Mins

SUM(Eve Mi...) SUM(Churn)

Sheet 1

State Intl Mins CustServ Ca.. Phone

State	Intl Mins	CustServ Ca..	Phone
MI	9.6	1	373-1448
			394-3048
	10	0	345-2863
	10.2	2	342-8348
	10.3	1	348-5569
	10.6	3	386-4215
	10.8	1	333-7460
	10.9	1	358-2694
		3	349-5617
	11	1	383-6356
	11.3	5	379-2503
	11.4	2	348-4660
	11.5	2	401-3170
	11.6	0	376-5213
		3	346-5707
	11.7	0	396-1278
		5	390-7930
			366-2770
			200 300 0 1 20 100 200 300 0 100 200 300 0 1
			Eve Mins Churn Day Mins Eve Mins Churn

prob churn (Churn)

Results are computed along Table (across).

```
day_mins=.arg2, day_charge=.arg3, custServ_call=.arg4, int_
day_charge + custServ_call+int_mins, data = mydata, family
mydata, type = "response")',
Day Charge),AVG([CustServ Calls]),AVG([Intl Mins]))
```

The calculation is valid. 2 Dependencies ▾

Default Table Calculation

Apply OK

Show Me

Churn

0 1

Area Code

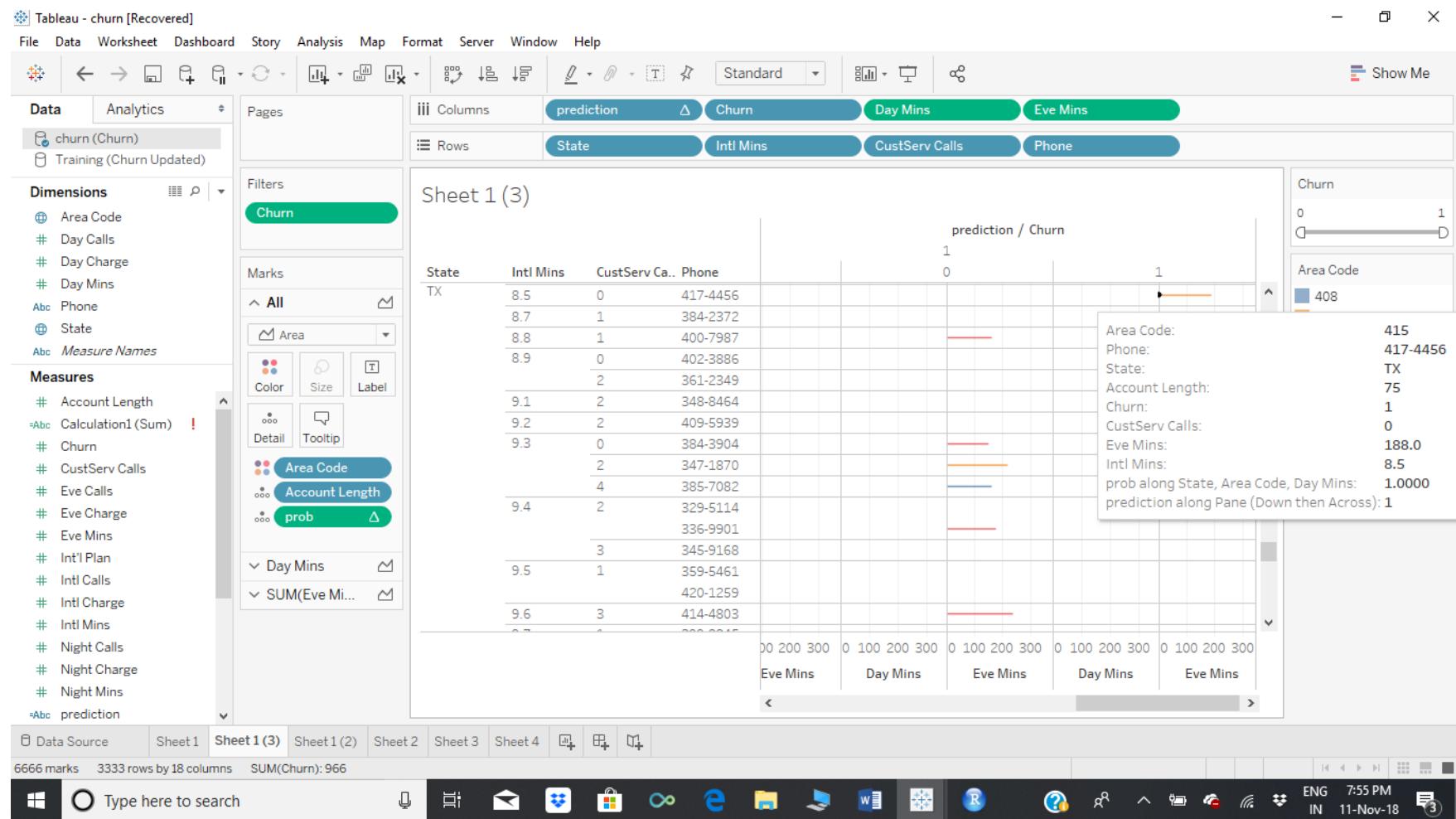
408 415 510

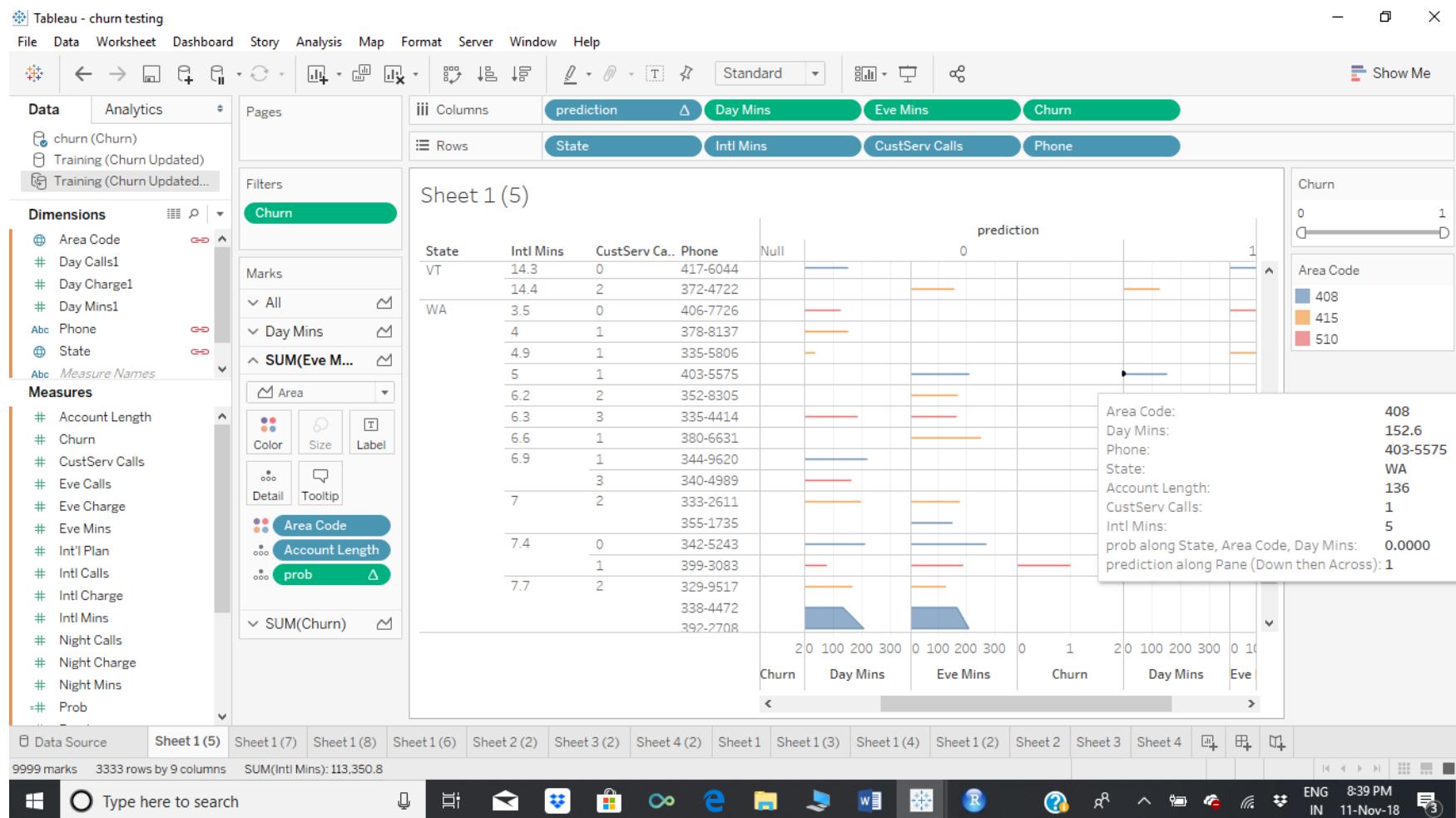
Data Source Sheet 1 Sheet 1(2) Sheet 2 Sheet 3 Sheet 4

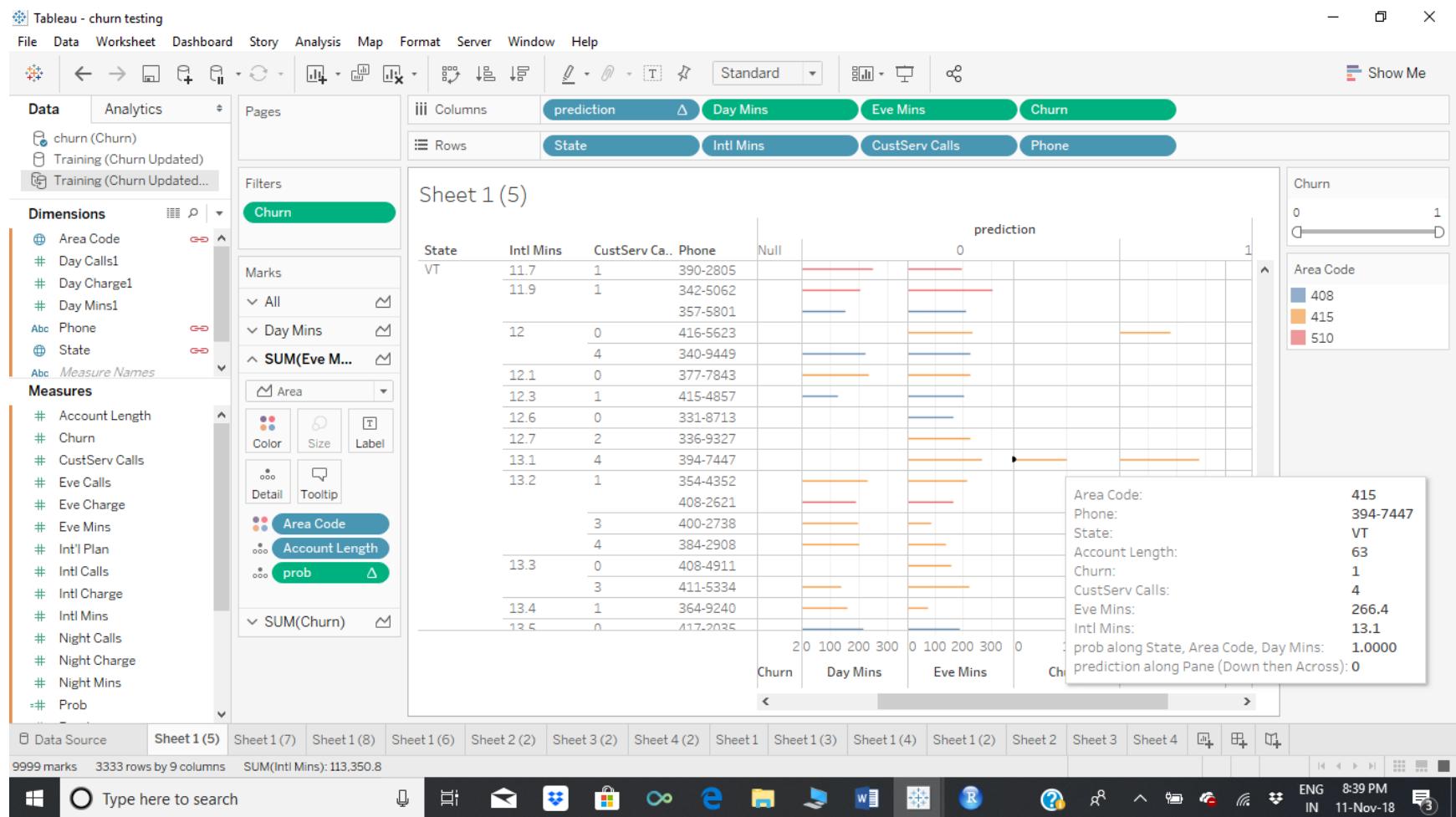
9999 marks 3333 rows by 9 columns SUM(Intl Mins): 113,350.8

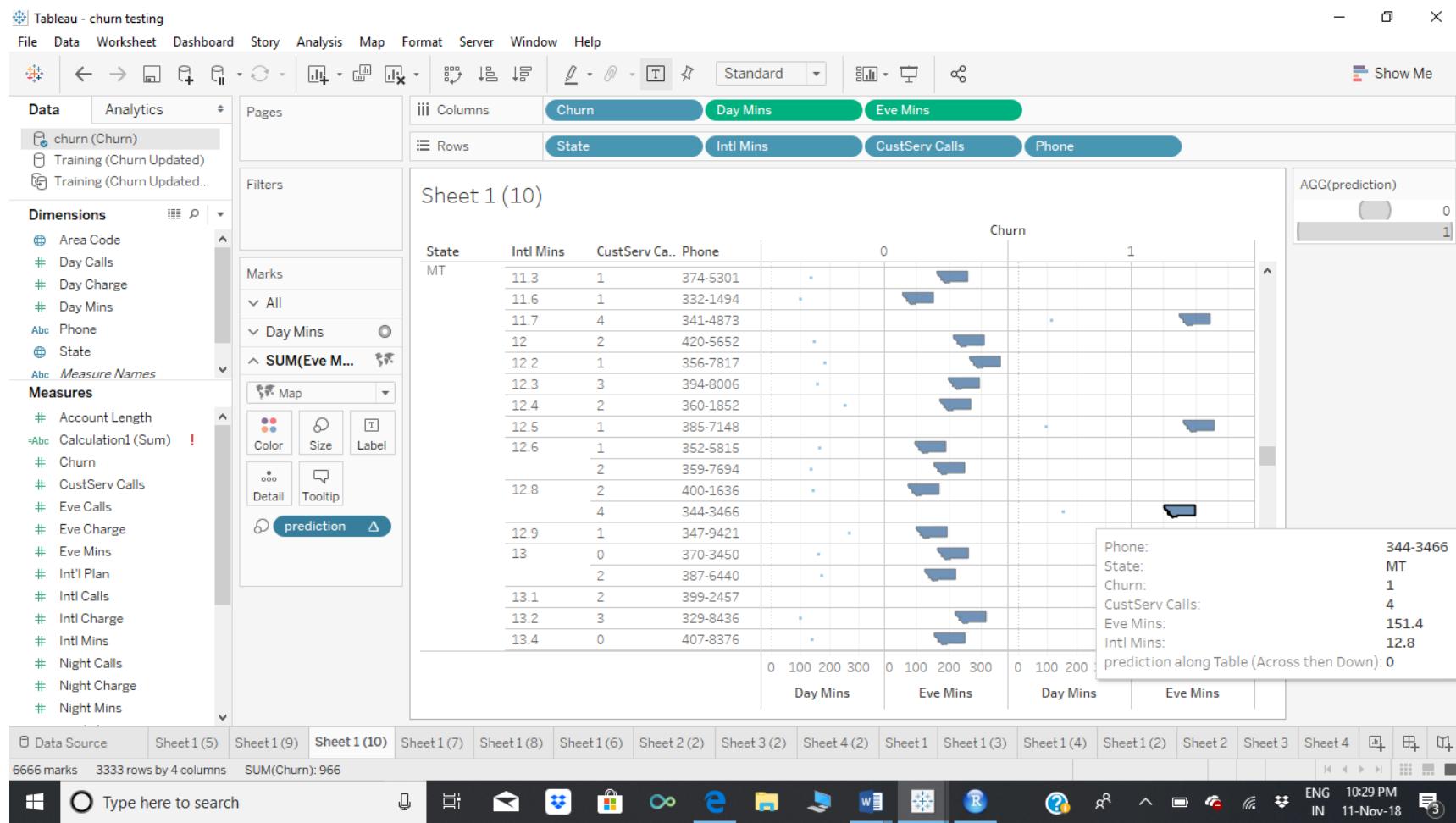
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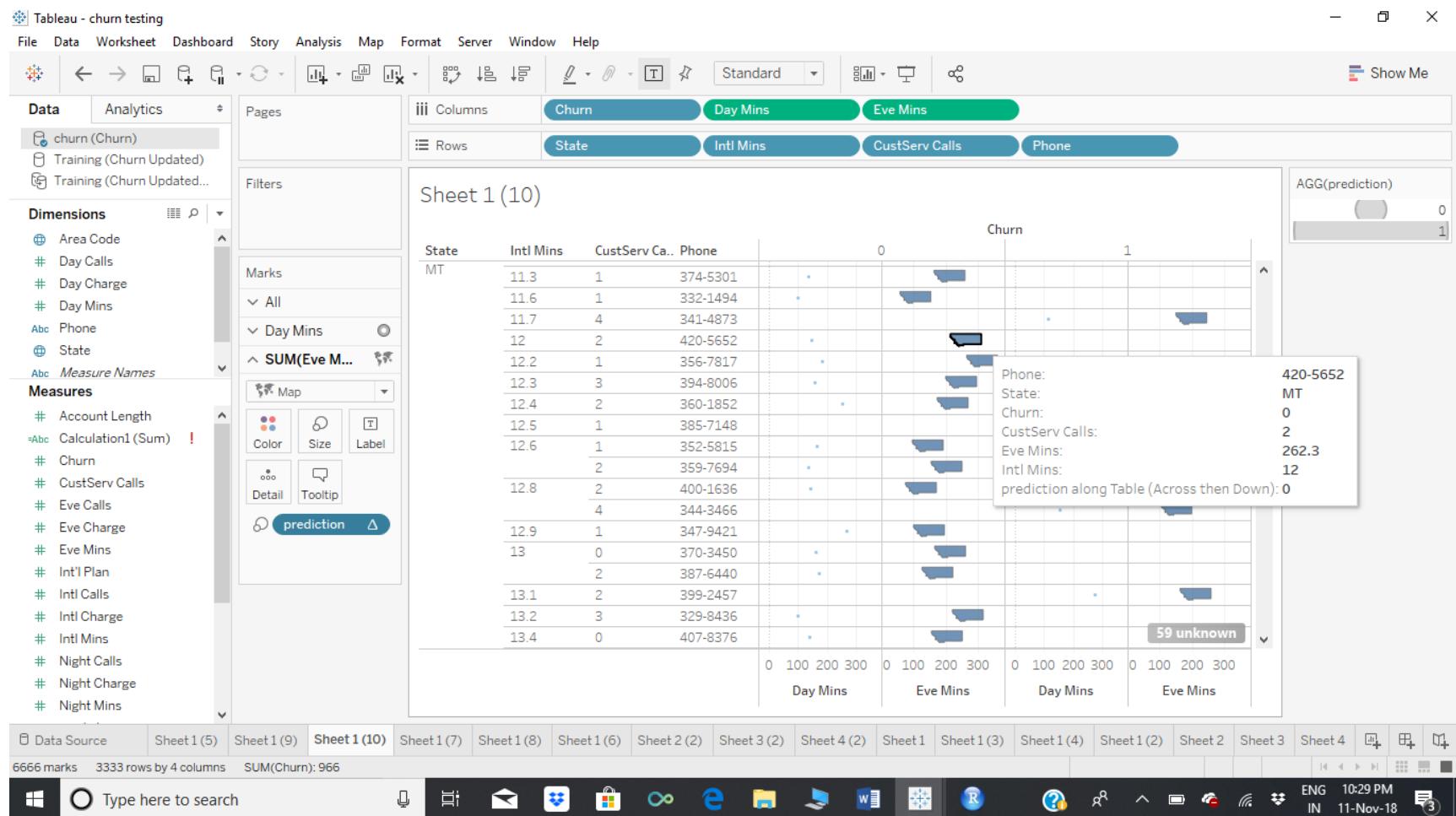
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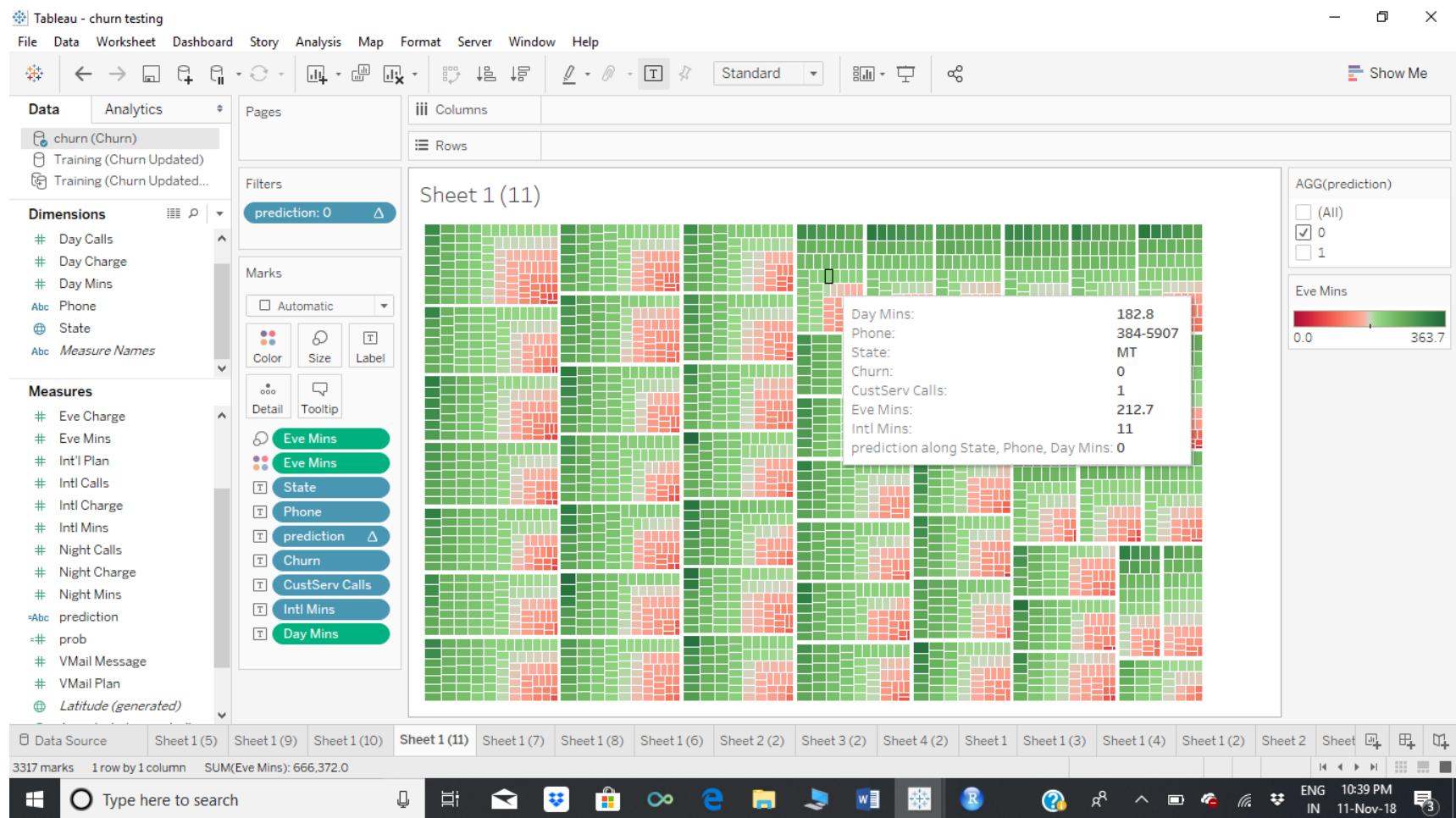


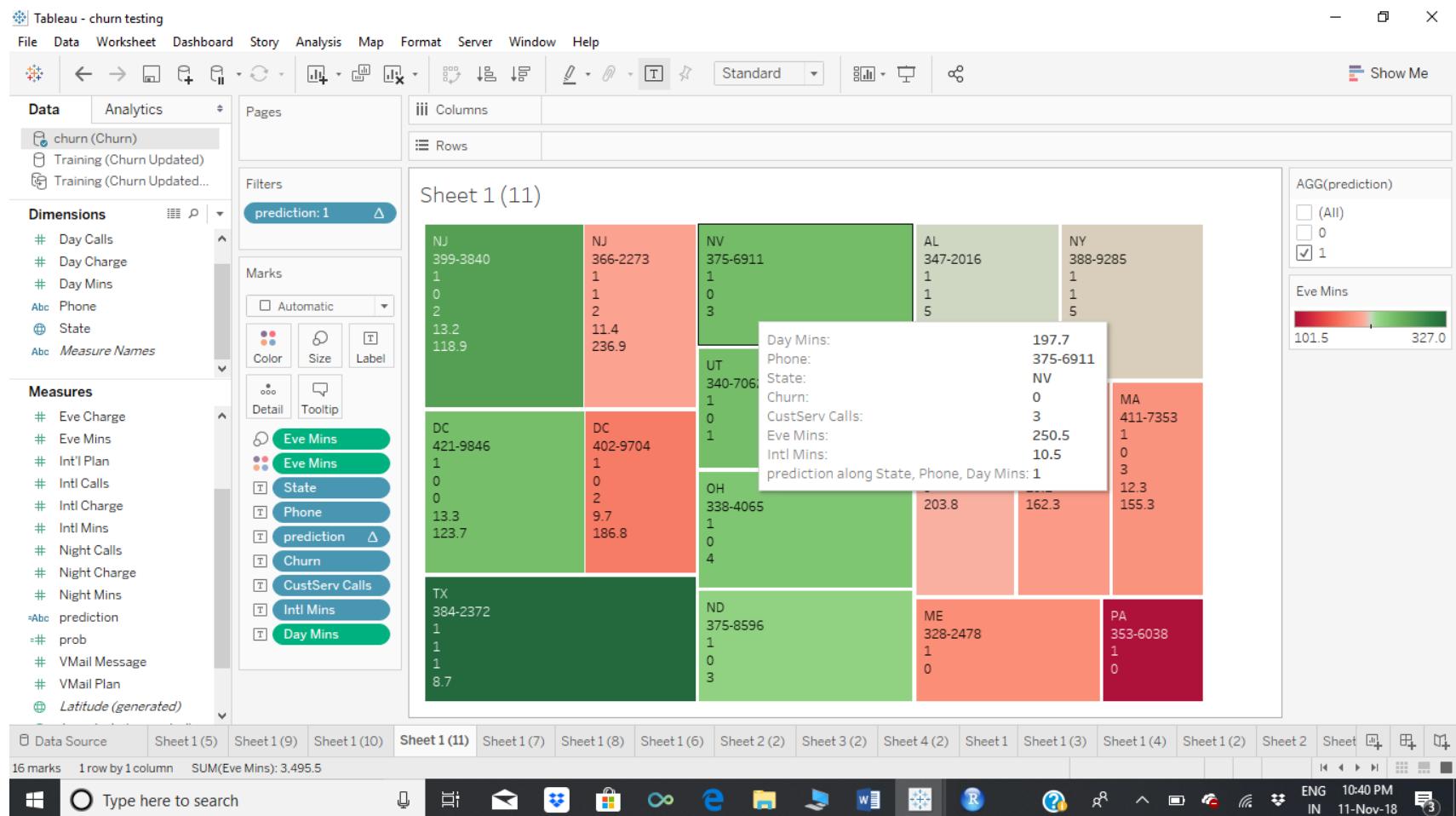


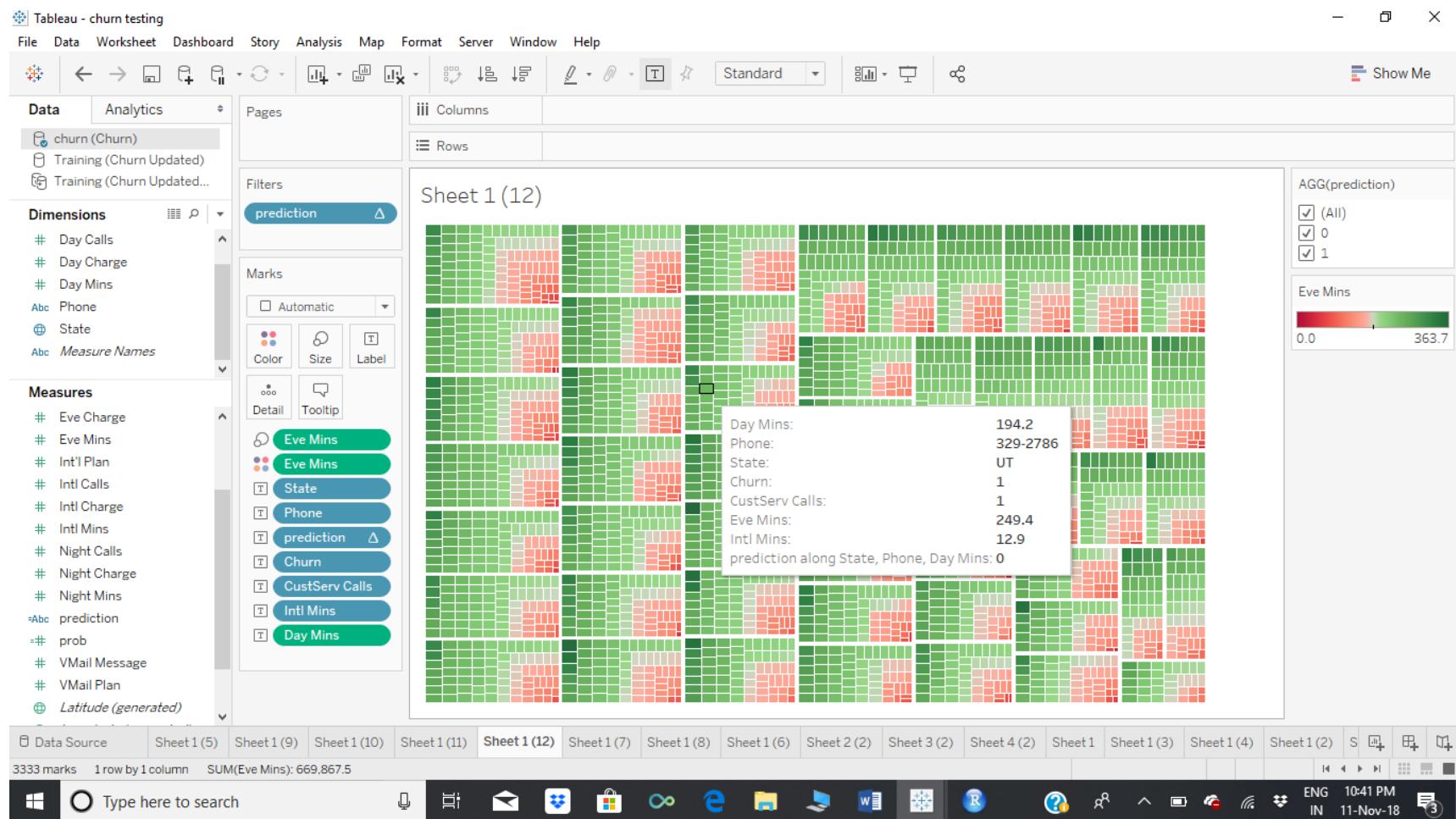












Prediction in slider we can select 0,1 or All



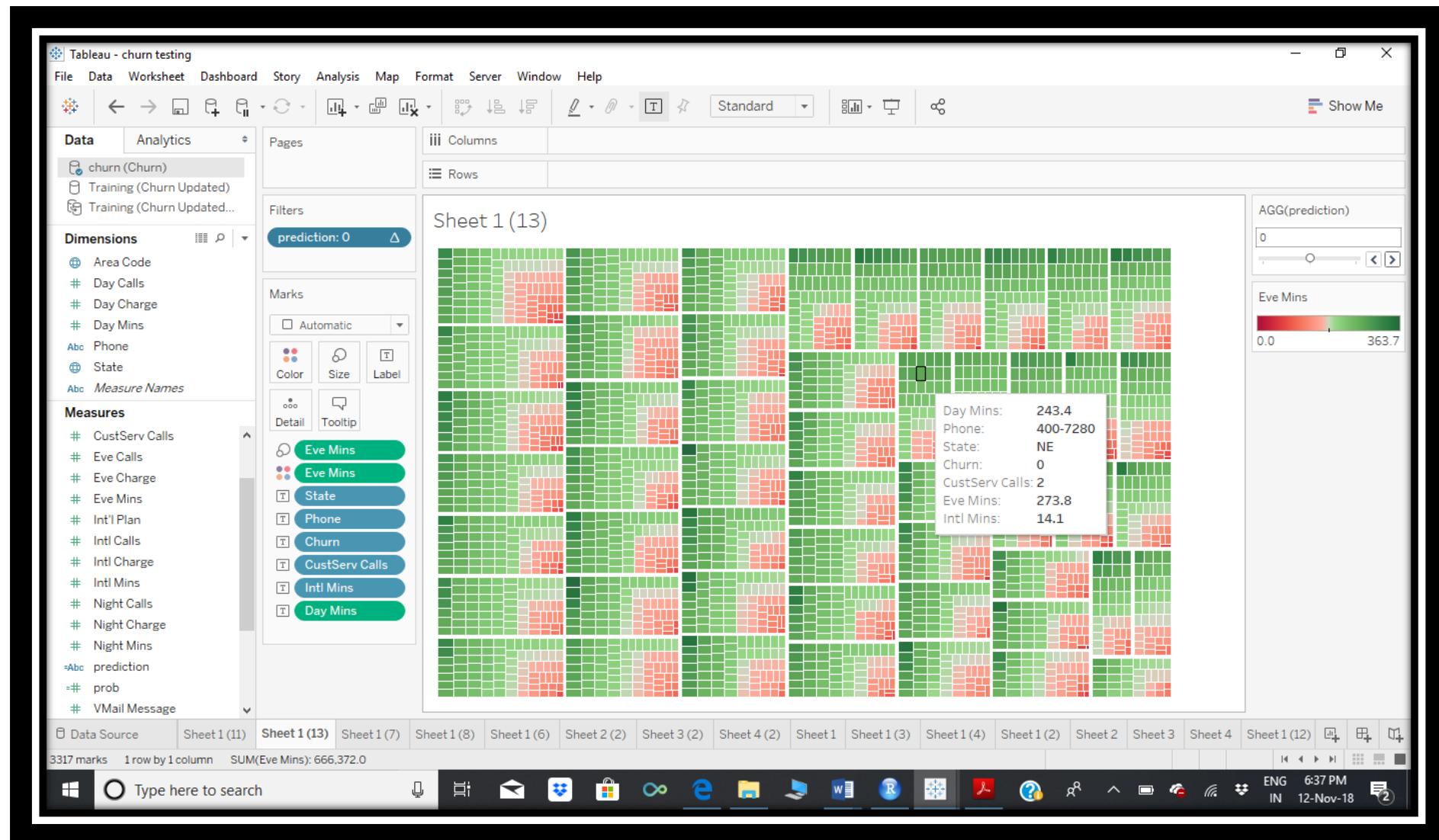


Tableau - churn testing

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics

Pages

Columns

Rows Day Mins SUM(CustServ Call..) Area Code State SUM(Intl Mins) Day Mins

Filters prediction Phone

AGG(prediction)

AGG(prediction)

Area Code

Day Calls

Day Charge

Day Mins

Phone

State

Measure Names

prediction

Marks

Area

Color Size Label

Detail Tooltip

prediction prediction prob Churn churn_tran..

Day Mins CustServ Ca.. Area Code State Intl Mins

291.6	2	415	HI	14	Day Min 100 0
291.8	0	510	MN	9.9	Day Mins 300 200 100 0
292.9	4	510	ME	13.8	Day Mins 300 200 100 0
293	2	510	IN	10	Day Mins 300 200 100 0
293.3	0	415	KS	14.5	Day Mins 300 200 100 0

Day Mins

3315 marks 3315 rows by 1 column SUM(CustServ Calls): 5,209

Type here to search

ENG 9:11 PM IN 14-Nov-18

