Foundations of Data Science (UCS548)

Dashboard Submission



CAR INSURANCE POLICY DASHBOARD

Submitted To:

Dr. Archana Singh

Submitted by:

Aviral Jain 102016049 3CS10

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INTRODUCTION

A dashboard is a collection of several views, letting you compare a variety of data simultaneously.

A dashboard of Car Insurance Policies which gives various Insurance Counts with Average values.

Graphical depiction of many components with gender ,Marital Status ,Age and Education.

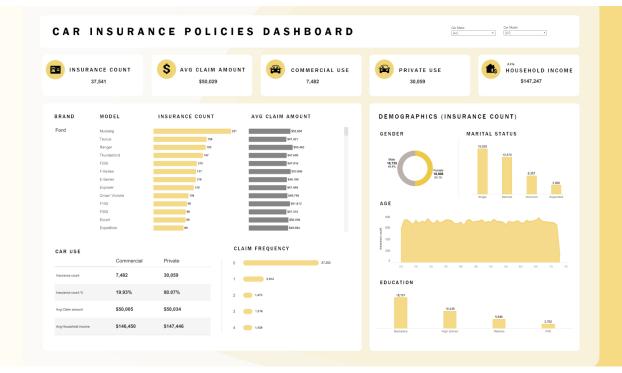
DATASET

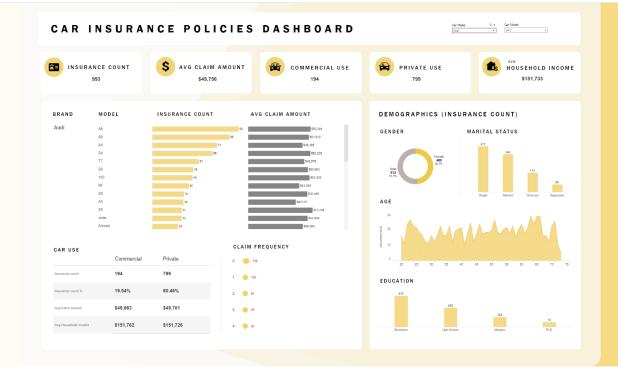
```
Importing Dataset:
data = read.csv("InsurancePolicies_Insurance
Policies.csv")
Checking for NULL values:
sum(is.na(data))
Replacing NULL values with mean:
for (i in which(sapply(data, is.numeric))) {
 data[is.na(data[, i]), i] <- mean(data[, i], na.rm =
TRUE)
Displaying the summary and structure of dataset:
summary(data)
str(data)
uniqueCast = unique(unlist(strsplit(data$Car Make,
",")))
```

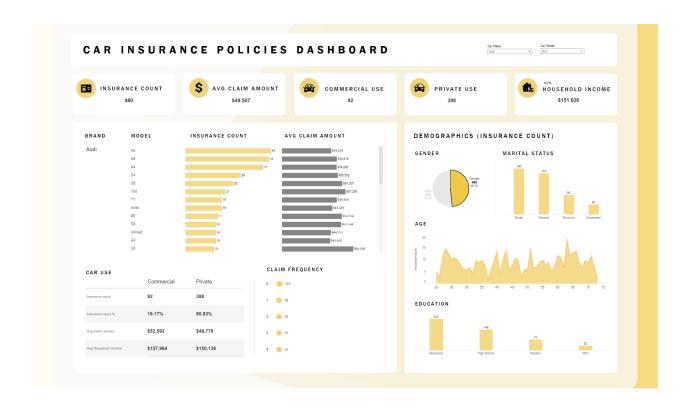
```
uniqueCountry = unique(unlist(strsplit(data$Car
Model, ",")))
uniqueGenre =
unique(unlist(strsplit(data$Insurance, ",")))
```

```
df = data[-1]
str(df)u
```

DASHBOARD







Dataset Joins and Queries

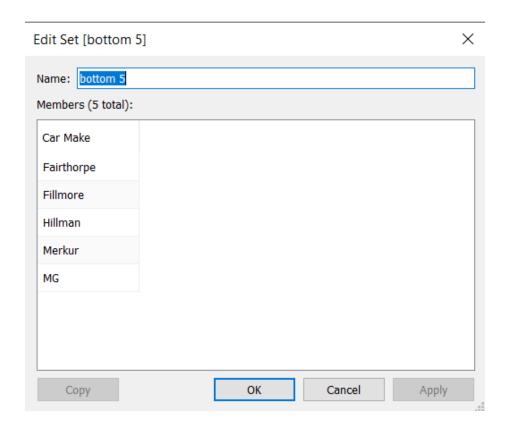


Edit Set [T&B]	×
Name: T&B	
How would you like to combine the two sets?	
Sets: bottom 5 v top 5	~
All members in both sets	
○ ① Shared members in both sets	
O I bottom 5" except shared members	
○ ™ "top 5" except shared members	
Separate members by , East, Green Tea, 2012	
OK Cancel Apply	

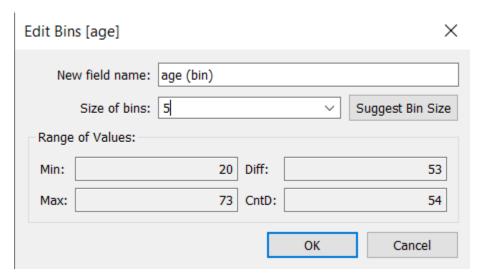
Top 5

Edit Set [top 5]			×
Name: top 5 Members (5 total):			
Car Make Chevrolet			
Dodge			
Ford GMC			
Toyota			
Сору	ОК	Cancel	Apply

Bottom 5

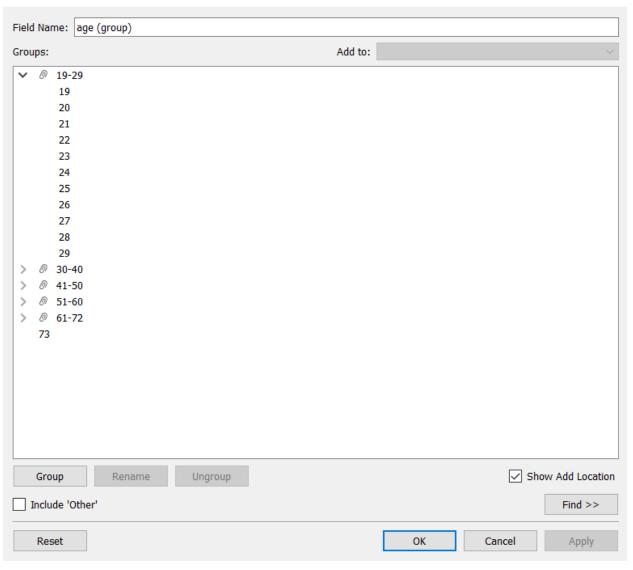


Age Bins



Age(Group)

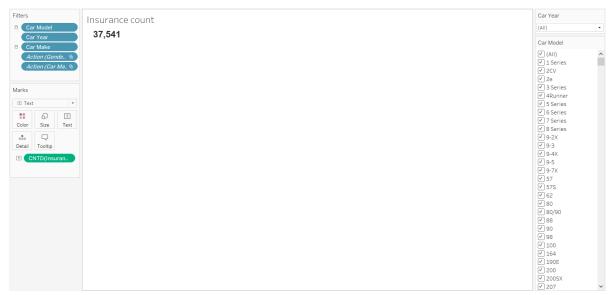
Edit Group [age (group)]



Χ

Navbar

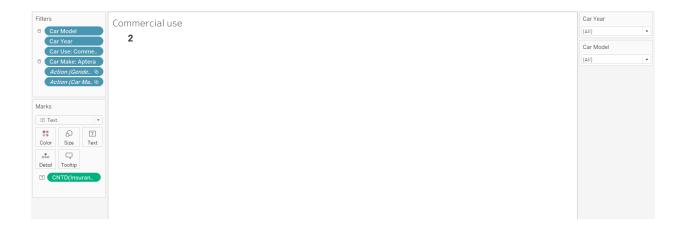
Insurance Count



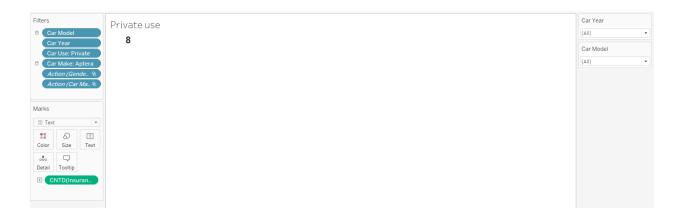
Total Claim Amount



Commercial Use



PrivateUse



Household Income

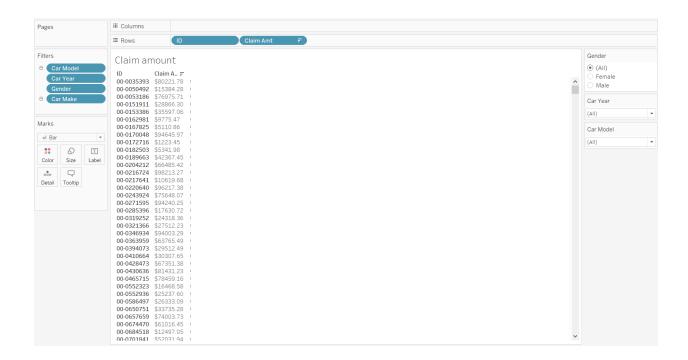


Insurance Count and Average Claim Count With Each Model and Brand

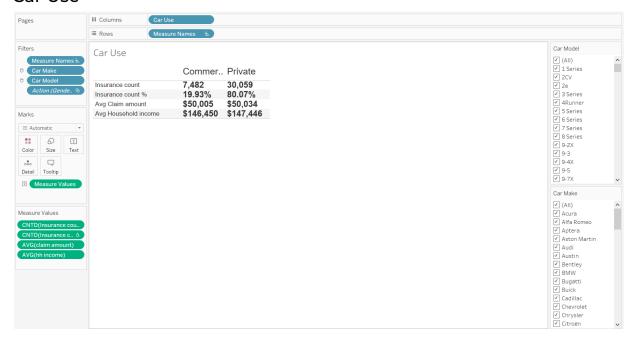
Car Insurance Count & Claim Amount



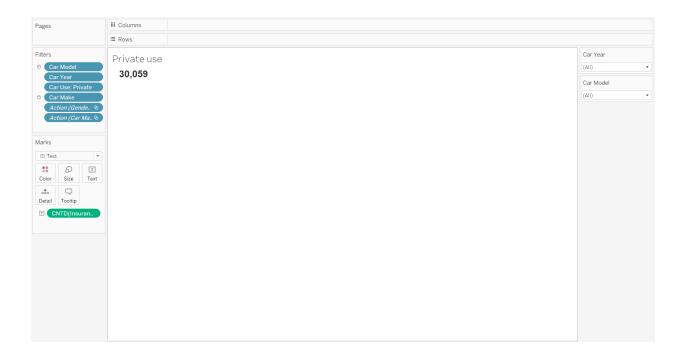
Claim Amount



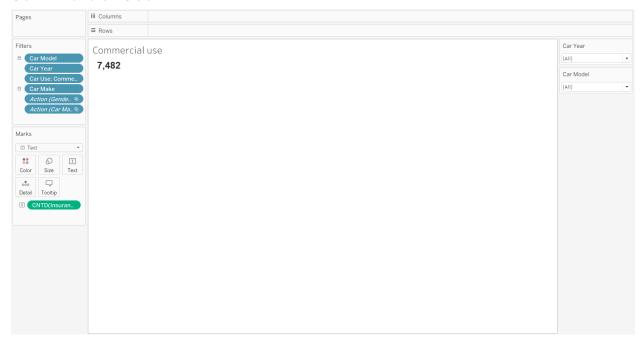
Car Use



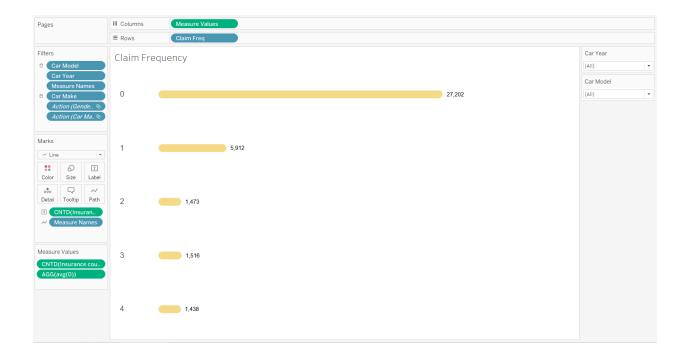
Private Use



Commercial Use

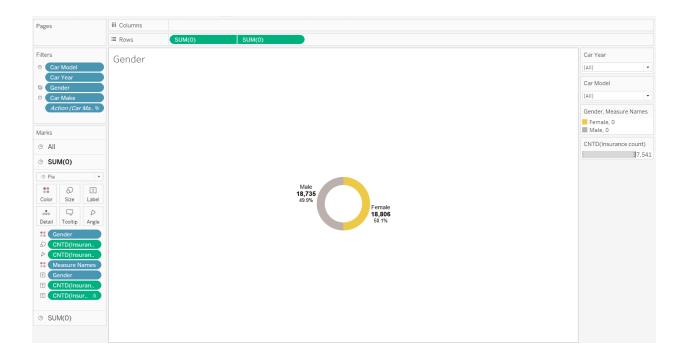


Claim Frequency



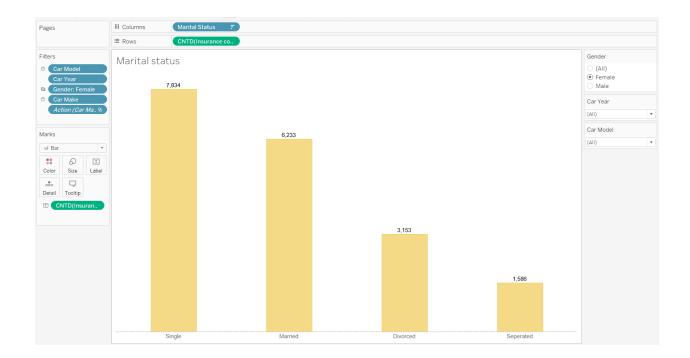
Demographies

Gender

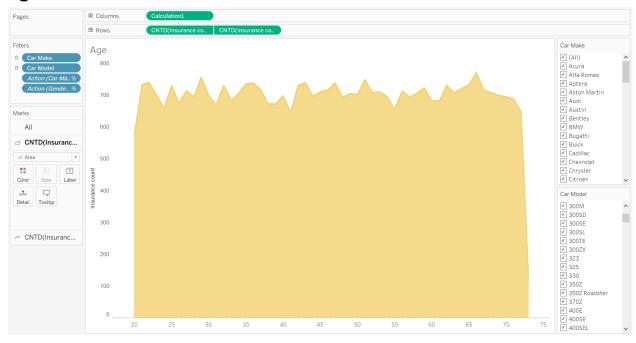


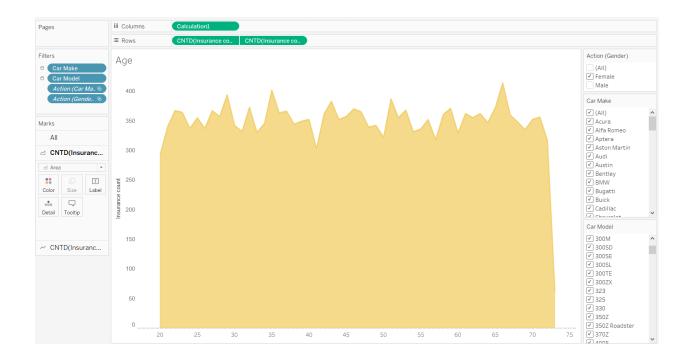
Marital Status



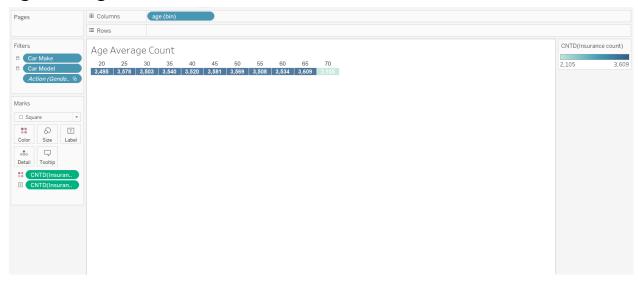


Age

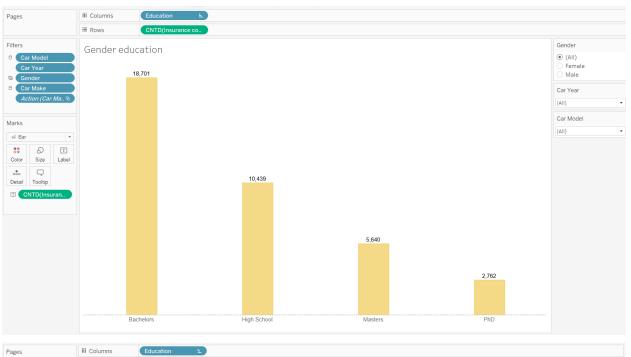




Age Average Count



Gender Education





Parameters

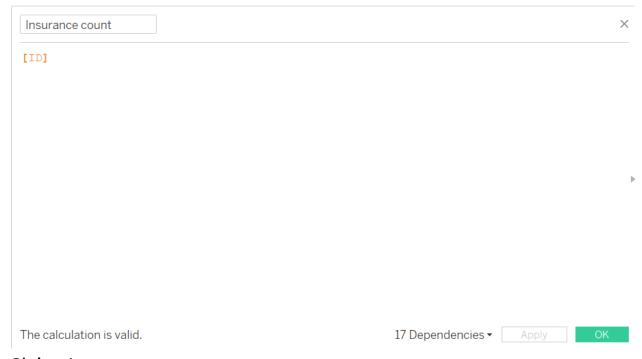
Total



hh income



Insurance Count



Claim Amount

```
Claim amount 

FLOAT (IF LEFT ([Claim Amt], 1) = "$" THEN MID([Claim Amt], 2)

END)

The calculation is valid. 

5 Dependencies 

Apply OK
```

Calculations

Calculation 1





Parameters

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Properties			
Data type		Display format	
Integer	▼	1	*
Current value		Value when workbook opens	
Insurance Count	•	Current value	•

Value	Display As	•
1	Insurance Count	0
2	Avg. Claim Amount	
Click to add		

● Fixed○ When workbook opensAdd values from ▼

Remove Selected

Cancel

ок

Coverage Zone

