

YAML

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2022

answer:1 the content of the data set is with respect to states. content are the columns 1) Number of drivers involved in fatal collisions per billion miles 2) Percentage of drivers involved in fatal collisions who were spending 3) percentage of drivers involved in fatal collisions who were alcohol-impaired 4) percentage of drivers involved in fatal collisions who were not distracted 5) percentage of drivers involved in fatal collisions who had not been involved in any previous accidents 6) Car Insurance premiums 7) losses incurred by insurance companies for collisions per insured driver

all the variables are giving us a discrete numerical values which mean the quantitative variables it was collected from the traffic police the data was saved in comma separated values(csv) format delimited the comma was used for delimiters and we normally used to excel to open a csv file. the data is not in binary format its a quantitative dataset.

#comment answer 2 we use library "readr" for importing a dataset in r studio the file is in csv format so i used the come read_csv (bad_drivers)

This data frame has 10rows and 8 columns. The names of the columns and a brief description of each are in the table below:

| | number_ of_driver s_involve d_in_fatal collision s_per_bill ion_miles | percentag e_of_drive rs_involve d_in_fatal_ collisions_ who_were _speeding | percentage _of_drivers_ involved_in _fatal_collis ions_who_ were_alcoh ol_impaired | percentage _of_drivers _involved_i n_fatal_coll isions_who _were_not_ distracted | percentage_of_ drivers_involve d_in_fatal_collis ions_who_had_ not_been_invol ved_in_any_pre vious_accidents | car _in sur anc e_p re mi um s | losses_incu rred_by_in surance_co mpanies_f or_collisio ns_per_ins ured_drive r |
|------------------------------|---|--|--|--|--|--|--|
| H a w ai i | 17.5 | 54 | 41 | 82 | 87 | 86 1.1 8 | 120.92 |
| L o ui si a n | 20.5 | 35 | 33 | 73 | 98 | 12 81. 55 | 194.78 |

| state | number_of_driver s_involved_in_fatal _collision_per_bill ion_miles | percentag e_of_drive rs_involve d_in_fatal_ collisions_who_were _speeding | percentage _of_drivers_ involved_in _fatal_collis ions_who_ were_alcoh ol_impaired | percentage _of_drivers_ _involved_i n_fatal_coll isions_who _were_not_ distracted | percentage_of_ drivers_involve d_in_fatal_collis ions_who_had_ not_been_invol ved_in_any_pre vious_accidents | car _in sur anc e_p re mi um s | losses_incu rred_by_in surance_co mpanies_f or_collisio ns_per_ins ured_drive r |
|----------------|---|--|--|---|--|--|--|
| Massachusetts | 16.1 | 43 | 34 | 92 | 84 | 79 0.3 2 | 144.45 |
| Montana | 21.4 | 39 | 44 | 84 | 85 | 81 6.2 1 | 85.15 |
| North Carolina | 16.8 | 39 | 31 | 94 | 81 | 70 8.2 4 | 127.82 |
| Pennsylvania | 18.2 | 50 | 31 | 96 | 88 | 90 5.9 9 | 153.86 |
| South | 23.9 | 38 | 41 | 96 | 81 | 85 8.9 | 116.29 |

| state | number_of_drivers_involved_in_fatal_collision_per_billion_miles | percentage_of_drivers_involved_in_fatal_collisions_who_were_speeding | percentage_of_drivers_involved_in_fatal_collisions_who_were_alcohol_impaired | percentage_of_drivers_involved_in_fatal_collisions_who_were_not_distracted | percentage_of_drivers_involved_in_fatal_collisions_who_had_not_been_involved_in_any_previous_accidents | car_insurance_premiums | losses_incurred_by_insurance_companies_for_collisions_per_insured_driver |
|------------|---|--|--|--|--|------------------------|--|
| Utah | | | | | | 7 | |
| California | 19.4 | 31 | 33 | 98 | 86 | 669.31 | 96.87 |
| Dakota | | | | | | | |
| Texas | 19.4 | 40 | 38 | 91 | 87 | 1004.75 | 156.83 |
| Wyoming | 17.4 | 42 | 32 | 81 | 90 | 791.14 | 122.04 |

description:The state of Hawaii has 17.5 number of drivers involved in fatal collisions per billion miles, 54% of drivers involved in fatal collisions who were speeding, 41% of drivers involved in fatal collisions who were alcohol impaired,82% of drivers involved in fatal collisions who were not distracted , 87% drivers involved in fatal collisions who had not been involved in any previous accidents, there are 86, 1.1 and 8 in terms of car insurance

premiums and losses incurred by insurance companies for collisions per insured drivers. The state of Louisiana has 20.5 number of drivers involved in fatal collisions per billion miles, 35% of drivers involved in fatal collisions who were speeding, 33% of drivers involved in fatal collisions who were alcohol impaired, 73% of drivers involved in fatal collisions who were not distracted, 98% of drivers involved in fatal collisions who had been involved in any previous accidents, there are 12, 81, 55 were car insurance premiums and 194.78 losses incurred by insurance companies for collisions per insured drivers. The state of Missouri has 16.1 number of drivers involved in Fatal Collisions per billion miles, 43% of drivers involved in fatal collisions who were speeding, 34% of drivers involved in fatal collisions who were alcohol impaired, 34 % of drivers involved in fatal collisions who were not distracted, 92% of drivers involved who has been involved in any previous accidents, There are 79, 0.3 were car insurance premiums and 144.5 losses incurred by insurance companies for collisions per insured drivers.

summary:

```
##      state
## Length:10
## Class :character
## Mode  :character
##
##
##
## number_of_drivers_involved_in_fatal_collisions_per_billion_miles
## Min.      :16.10
## 1st Qu.:17.43
## Median :18.80
## Mean      :19.06
## 3rd Qu.:20.23
## Max.      :23.90
## percentage_of_drivers_involved_in_fatal_collisions_who_were_speeding
## Min.      :31.00
## 1st Qu.:38.25
## Median :39.50
## Mean      :41.10
## 3rd Qu.:42.75
## Max.      :54.00
##
## percentage_of_drivers_involved_in_fatal_collisions_who_were_alcohol_impaired
## Min.      :31.00
## 1st Qu.:32.25
## Median :33.50
## Mean      :35.80
## 3rd Qu.:40.25
## Max.      :44.00
##
## percentage_of_drivers_involved_in_fatal_collisions_who_were_not_distracted
## Min.      :73.0
## 1st Qu.:82.5
```

```
## Median :91.5
## Mean   :88.7
## 3rd Qu.:95.5
## Max.    :98.0
##
percentage_of_drivers_involved_in_fatal_collisions_who_had_not_been_involved_
in_any_previous_accidents
## Min.     :81.00
## 1st Qu.:84.25
## Median :86.50
## Mean     :86.70
## 3rd Qu.:87.75
## Max.     :98.00
## car_insurance_premiums
## Min.      : 669.3
## 1st Qu.: 790.5
## Median : 837.6
## Mean      : 868.8
## 3rd Qu.: 894.8
## Max.      :1281.5
## losses_incurred_by_insurance_companies_for_collisions_per_insured_driver
## Min.      : 85.15
## 1st Qu.:117.45
## Median :124.93
## Mean      :131.90
## 3rd Qu.:151.51
## Max.      :194.78
```