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Course: MCA 1st C Sign:
Subject: R programming Roll No: 2101532
Date: March 15, 2022

Odd End Sem Exam (Regular)

Answer 4

Discriptive Statistics:

Summary: Gives us the discriptive stats like

In case of Numerical data:

Gives Mean, Mode, Median, Range.

Measure of Central Tendency:

- Mean(Titanic$fare)
  32.20421
  [an avg person spent $32 to board the titanic]
- Mode [Titanic$Age)
  24
  [most common age an titanic]
- Median [train$fare
  14.542

Measure of Spread:

- Range (Titanic$fare)
  0.000 512.3292
  [It shows lowest and highest value of fare]
- VAR (Titanic$fare)
  2469.437

- sqrt(var(Titanic$fare))

  49.69343

- Inferential statistics:
  - Hypothesis Testing

new_data <- subset(Titanic, Titanic$pclass == 1)

```
z.test = function(a, b, n){
  sample_mean = mean(a)
  popmean = mean(b)
  c = nrow(n)
  var_b = var(b)
  zobs = (sample_mean - popmean) / sqrt(var_b/c)
  return. zobs
}
```

call Function

z.test2(new_data$survived, titanic$survived
new_data)

7.42328