

ANS FOR THE QUESTION 01:

output:

output:

Small narrowbodies:

pilots salary: 388.0372 409.9546 444.0714 438.5024 437.3966 483.5861 552.6904 568.4438 370.5307  
326.9821

frequency distribution

[327,375) [375,424) [424,472) [472,520) [520,569)

2 2 3 1 2

Large Narrowbodies

Pilots Salary: 495.2744 516.7771 582.5005 539.4593 545.8917 584.8087, 629.2961 654.4040 439.5661  
392.8581

frequency distribution

[393,445) [445,497) [497,550) [550,602) [602,655)

2 1 3 2 2

wide bodies

pilots salary: 758.6967 858.4411 990.3960 979.7455 949.381, 994.4438 1081.5019 1131.1319  
739.2407 652.9310

frequency distribution

[652,749) [749,844) [844,940)

2 1 1

[940,1.04e+03) [1.04e+03,1.13e+03)

4 2

total:

pilot salaries: 510.4075 552.9805 623.4555 616.3594 605.6951 649.9513, 719.8132 757.7997 487.2081  
429.8417

frequency distribution:

[430,495) [495,561) [561,627) [627,692) [692,758)

2 2 3 1 2

ANS FOR THE QUESTION 02:

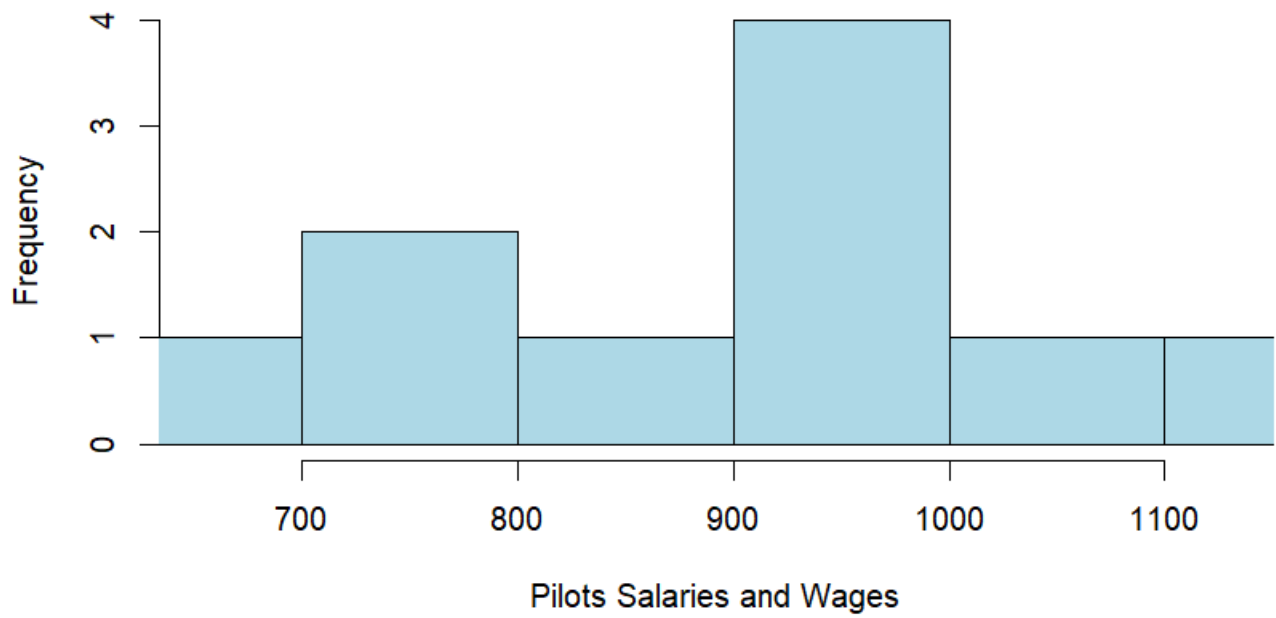
Small narrowbodies

output

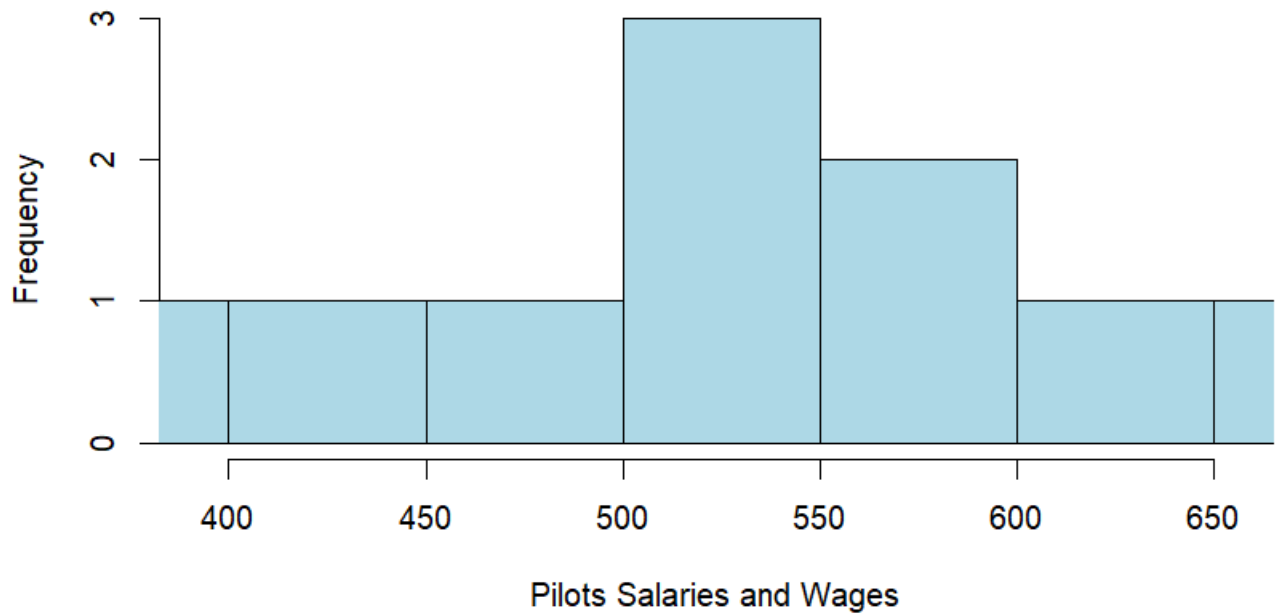
```
> cat("Mean:", mean_salaries, "\n")
Mean: 442.0195
> cat("Median:", median_salaries, "\n")
Median: 437.9495
> cat("Mode:", mode_salaries, "\n")
Mode: 388.0372
> cat("Standard Deviation:", sd_salaries, "\n")
Standard Deviation: 76.21854
> cat("Variance:", var_salaries, "\n")
Variance: 5809.266
> cat("Quartiles:\n", quartiles, "\n")
Quartiles:
 326.9821 393.5166 437.9495 473.7074 568.4438
> cat("9th Decile (90th Percentile):", decile_9, "\n")
9th Decile (90th Percentile): 554.2657
> cat("10th Percentile:", percentile_10, "\n")
10th Percentile: 366.1758
> cat("Range:", salary_range, "\n")
Range: 241.4618
> |
```

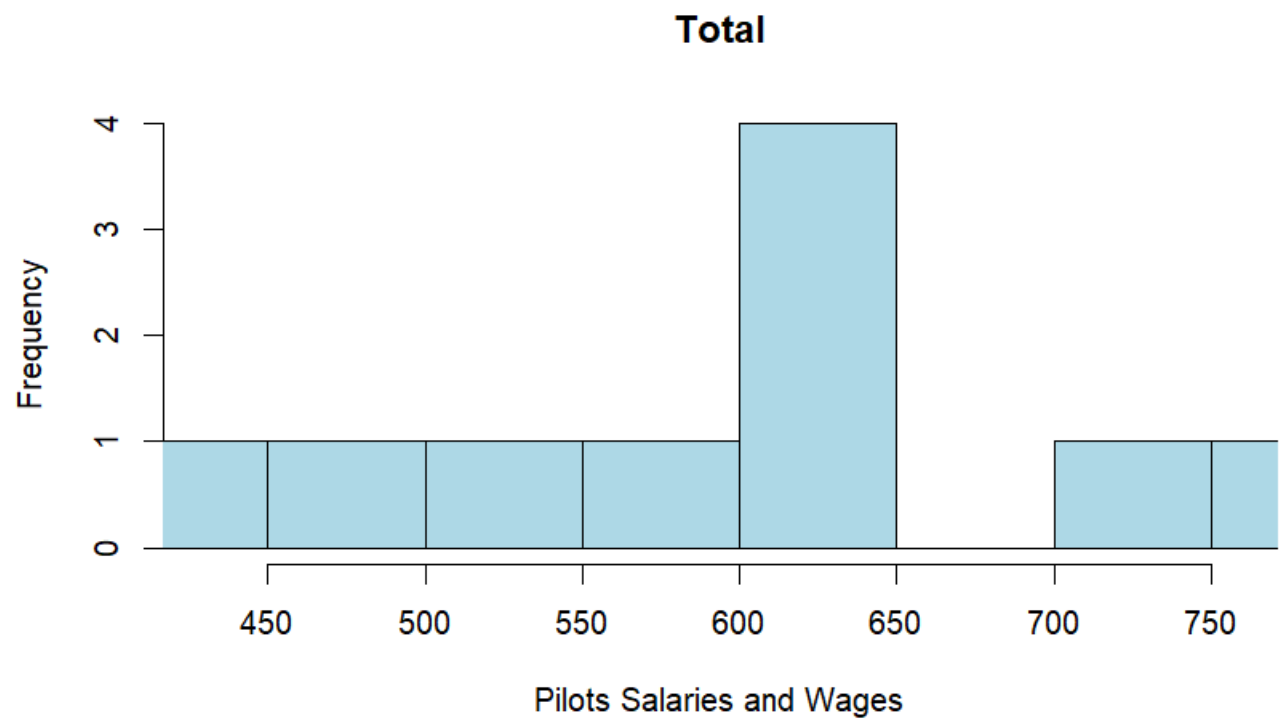
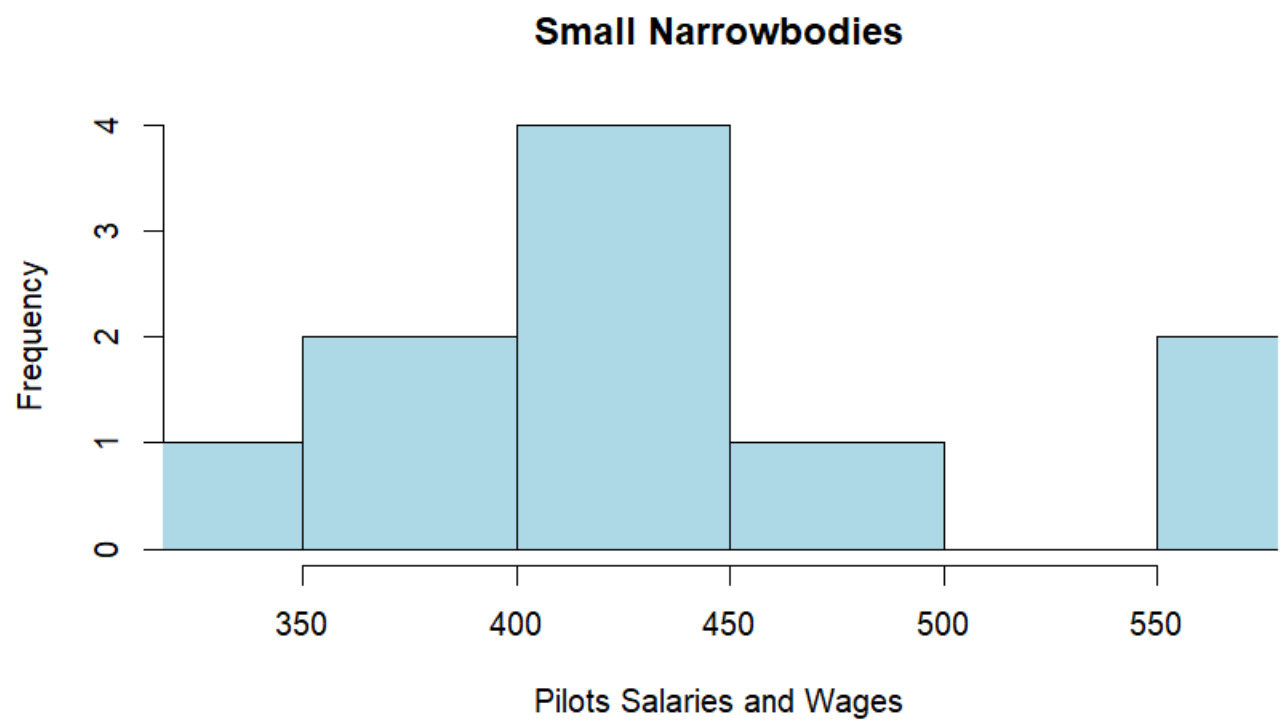
ANS FOR QUESTION 03:

### Wide bodies



### Large Narrowbodies

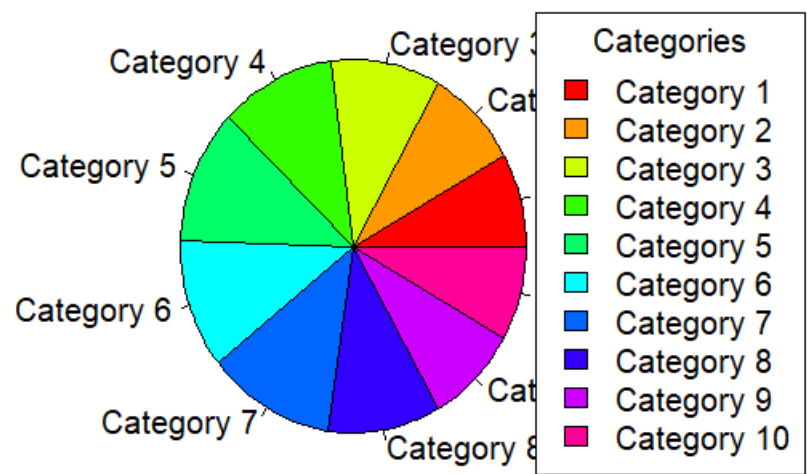




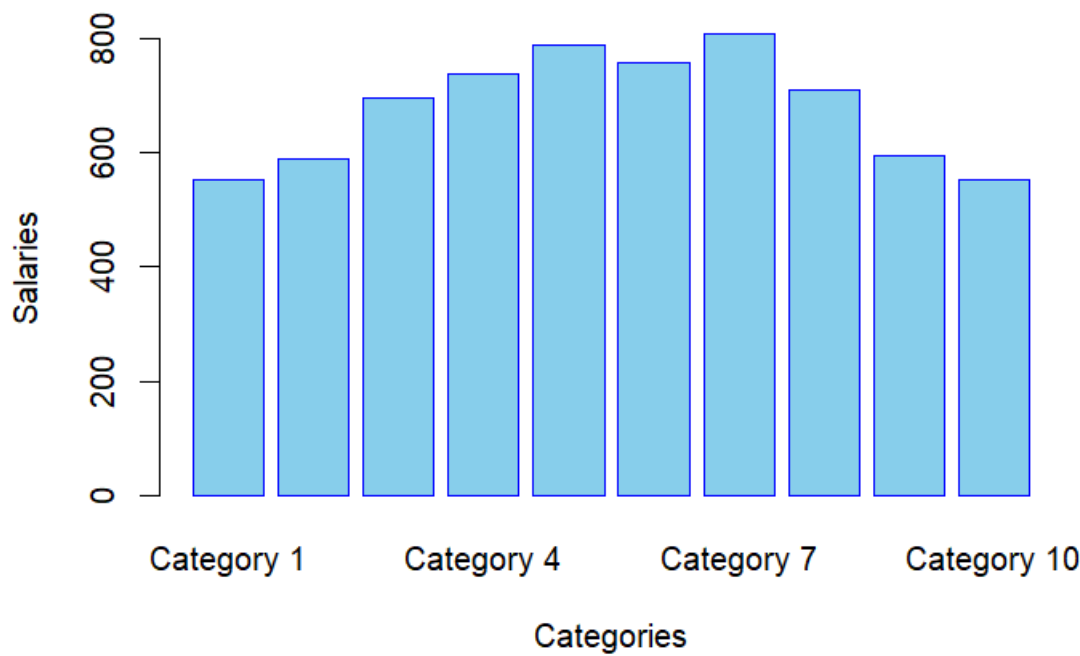
ANS FOR THE QUESTION 04:

OUTPUT

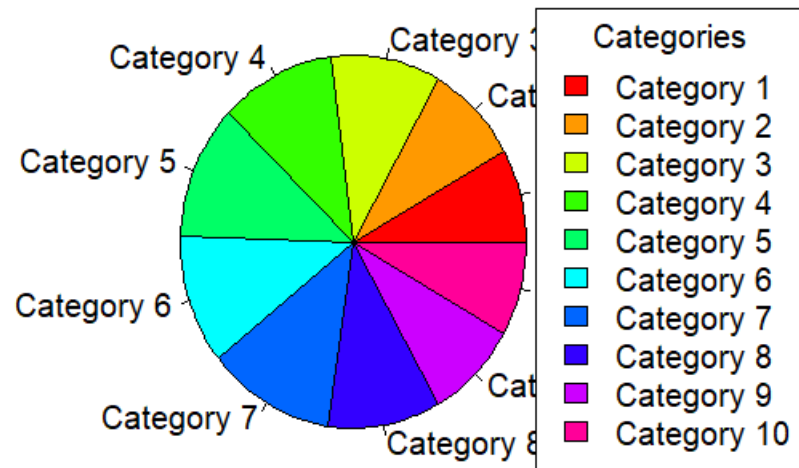
**Load factor (Row 17, Col 3-12)**



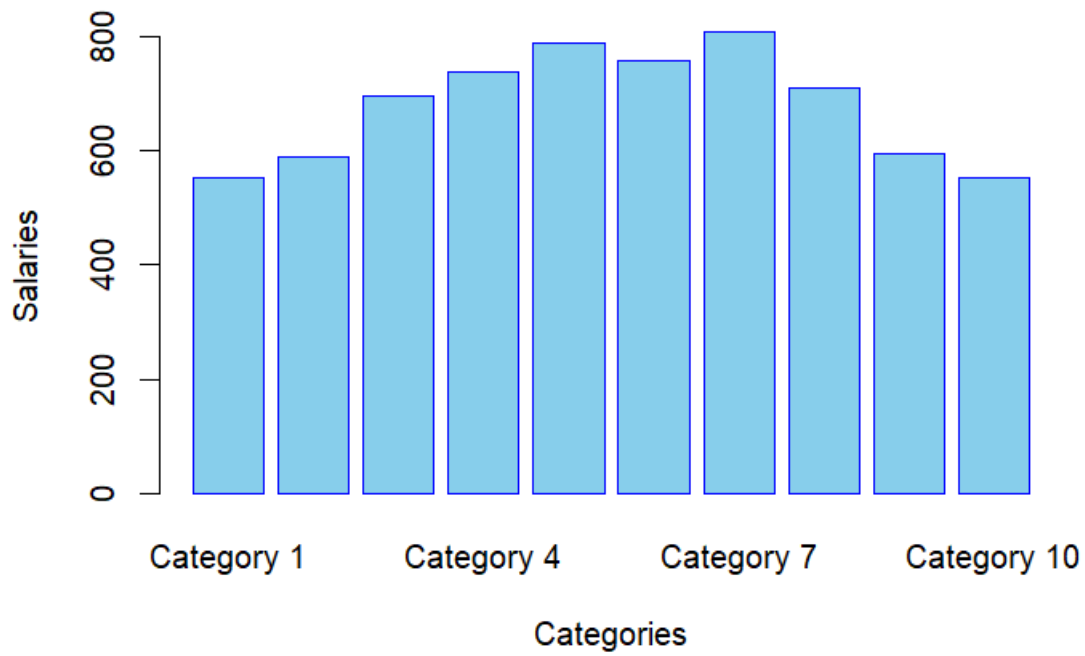
**Maintenance (Row 17, Col 3-12)**



### Maintenance (Row 17, Col 3-12)

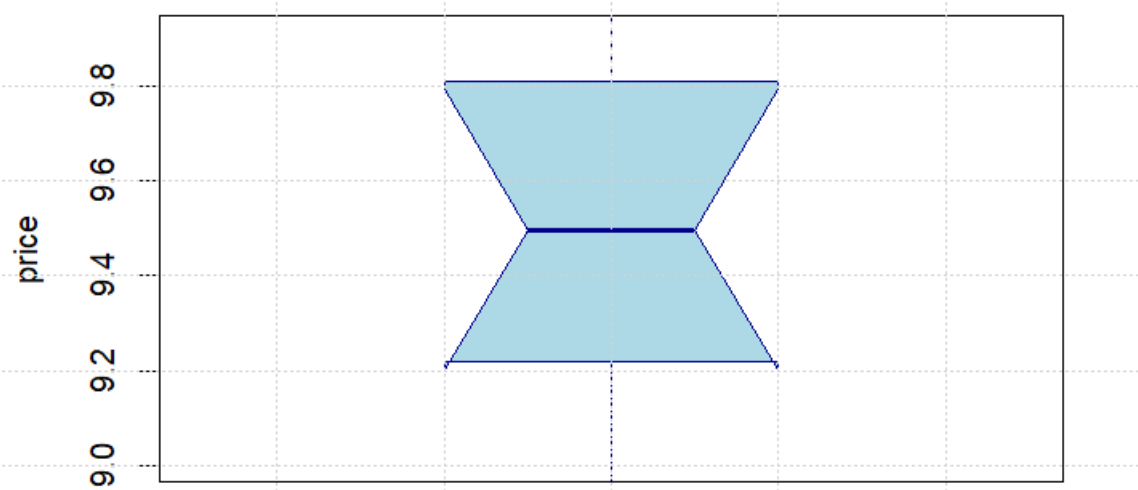


### Load factor (Row 17, Col 3-12)

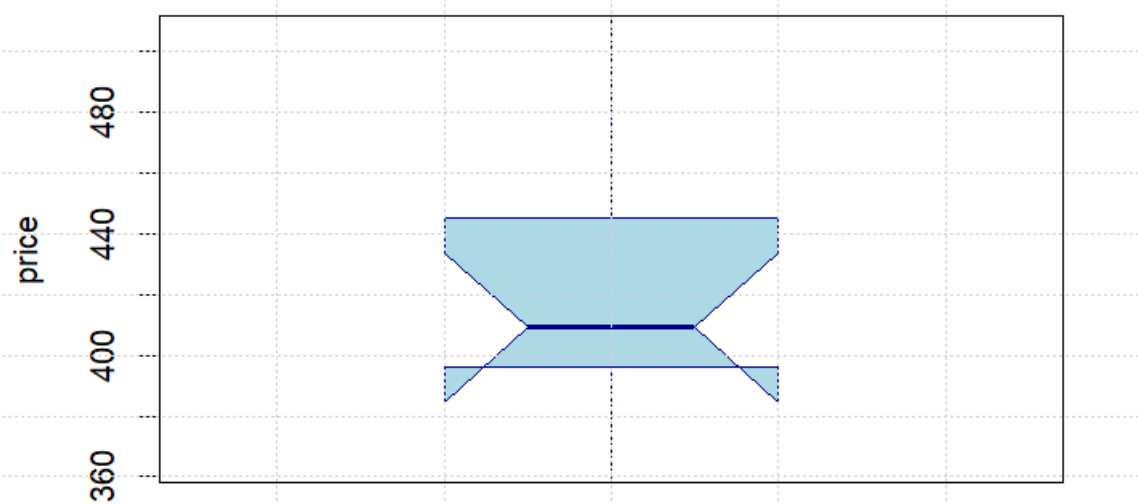


OUTPUT FOR QUESTION 05:

**Box Plot daily utilization (Row 12, Columns 3-12)**



**Box Plot aircraft owership (Row 12, Columns 3-12)**



**Box Plot of Salaries (Row 12, Columns 3-12)**

