Business Objective:

If there is difference in the average Turn Around Time (TAT) of reports of the laboratories on their preferred list.

Ho: No difference in TAT in 4 labs.

Ha: Difference in TAT in 4 labs.

Step 1: Normality

Ho: Data is normally distributed.

Ha: Data is not normally distributed.

P value > 0.05 -> P high Ho fly -> fail to reject Ho -> Data is normally distributed.

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Step 2: Choose the test (External Conditions same) ->ANOVA Test.

Ho: Sample mean of unit1 is equal to sample mean of unit2

Ha: Sample mean of unit1 is not equal to sample mean of unit2

P value < 0.05 -> reject Ho -> Different. Accept alternative Hypothesis.

Conclusion :

So, there is a difference in the average Turn Around Time (TAT) of reports of the laboratories on their preferred list.