

Levene's Test Results:

Statistic: 1.9893651956764993, P-value: 0.13690253117827733

The variances across segments are not significantly different ($p \geq 0.05$), indicating the assumption of homogeneity of variances is met.

Bartlett's Test Results:

Statistic: 3.750855311892396, P-value: 0.15328939770299424

The variances across segments are not significantly different ($p \geq 0.05$), indicating the assumption of homogeneity of variances is met.

OLS Regression Results						
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Dep. Variable:	log_sales	R-squared:	0.000			
Model:	OLS	Adj. R-squared:	-0.000			
Method:	Least Squares	F-statistic:	0.4556			
Date:	Sat, 26 Oct 2024	Prob (F-statistic):	0.634			
Time:	19:17:18	Log-Likelihood:	-8566.6			
No. Observations:	4502	AIC:	1.714e+04			
Df Residuals:	4499	BIC:	1.716e+04			
Df Model:	2					
Covariance Type:	nonrobust					
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	coef	std err	t	P> t	[0.025	0.975]

Intercept	4.1811	0.033	125.868	0.000	4.116	4.246
C(Segment)[T.Corporate]	0.0038	0.055	0.068	0.946	-0.104	0.112
C(Segment)[T.Home Office]	-0.0602	0.068	-0.890	0.374	-0.193	0.073
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Omnibus:	151.820	Durbin-Watson:	2.003			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	99.003			
Skew:	0.239	Prob(JB):	3.18e-22			
Kurtosis:	2.453	Cond. No.	3.32			
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ANOVA Test Results:

F-statistic: 0.45559371457787307

P-value: 0.6341006489489389

Fail to reject the null hypothesis: There are no significant differences between the segments.