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September 30, 2025  
Lab 2

```
> # First model  
> model1 <- lm(log_price~BEDS + BATH + log_sqft,ny)  
>  
> summary(model1)
```

Call:

```
lm(formula = log_price ~ BEDS + BATH + log_sqft, data = ny)
```

Residuals:

Min	1Q	Median	3Q	Max
-6.9226	-0.4531	-0.0618	0.4107	5.8699

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	7.745124	0.165435	46.817	< 2e-16 ***
BEDS	-0.049154	0.007063	-6.959	3.89e-12 ***
BATH	0.205291	0.009653	21.268	< 2e-16 ***
log_sqft	0.758376	0.023336	32.498	< 2e-16 ***

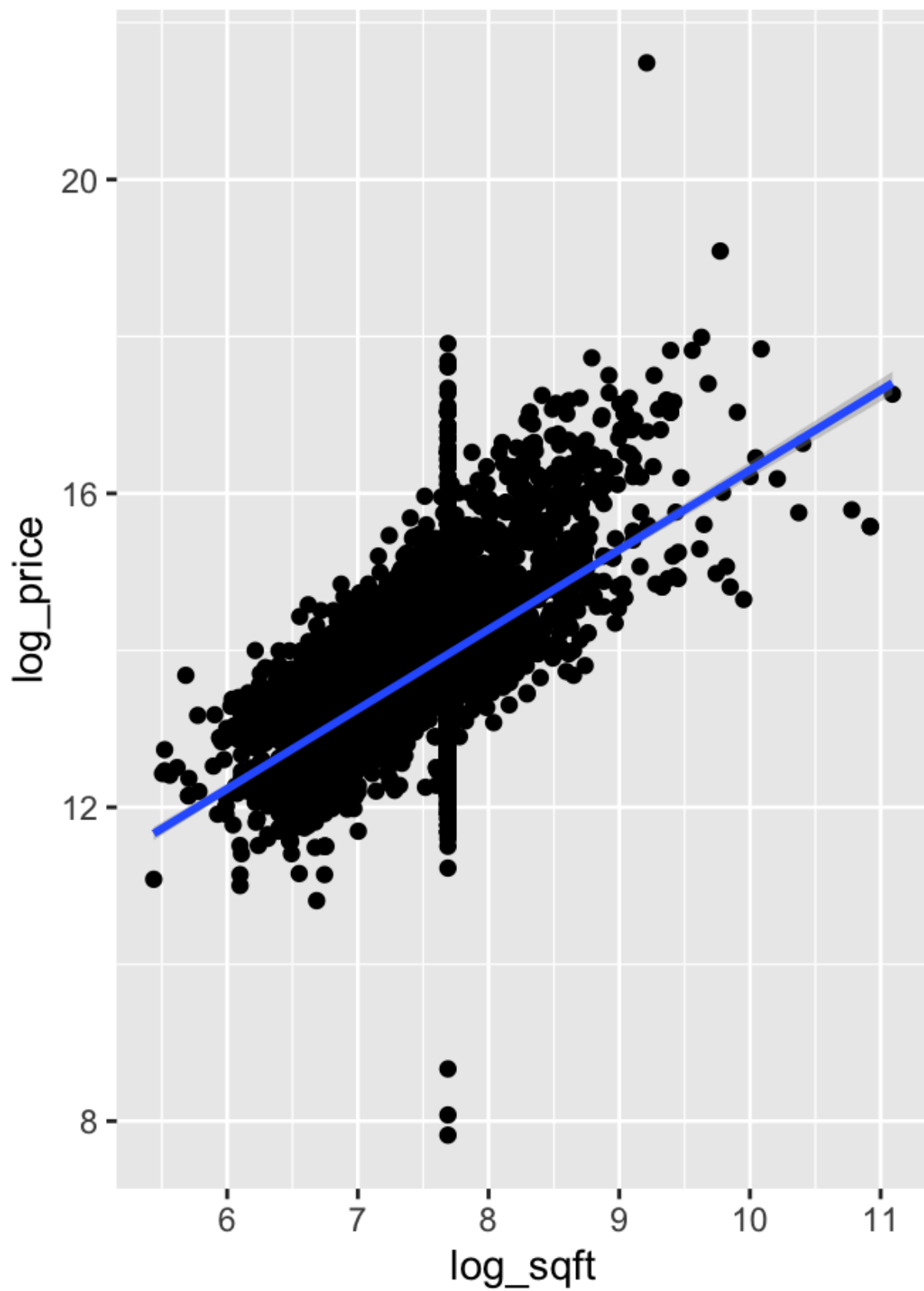
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.79 on 4797 degrees of freedom

Multiple R-squared: 0.4118, Adjusted R-squared: 0.4114

F-statistic: 1119 on 3 and 4797 DF, p-value: < 2.2e-16



```
> # Second model
> model2 <- lm(log_price~BEDS + BATH,ny)
>
> summary(model2)
```

Call:

```
lm(formula = log_price ~ BEDS + BATH, data = ny)
```

Residuals:

Min	1Q	Median	3Q	Max
-10.9335	-0.5014	-0.1041	0.3905	6.7233

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	13.085730	0.021011	622.800	<2e-16 ***
BEDS	-0.008799	0.007680	-1.146	0.252
BATH	0.290021	0.010265	28.253	<2e-16 ***

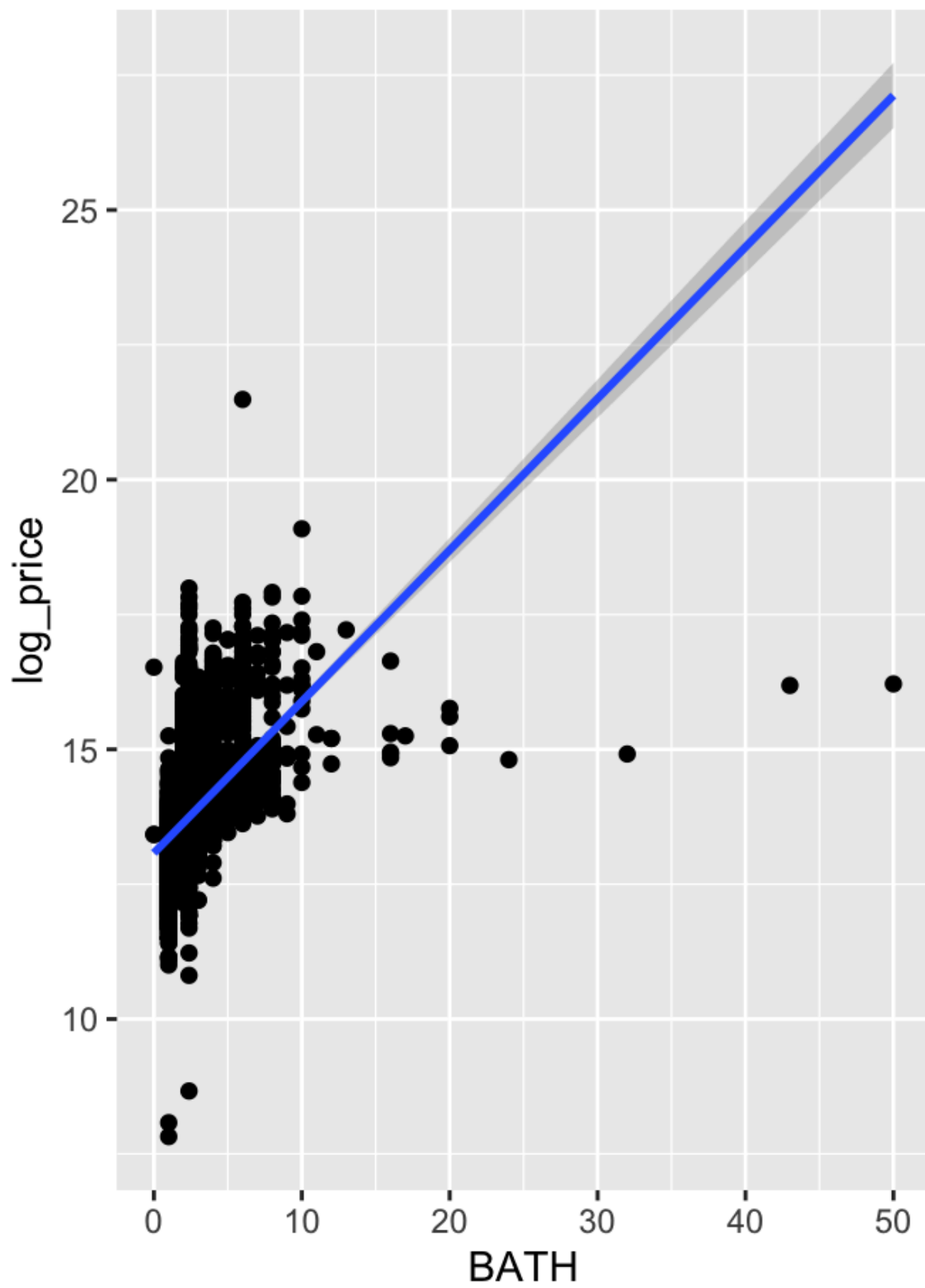
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.8726 on 4798 degrees of freedom

Multiple R-squared: 0.2822, Adjusted R-squared: 0.2819

F-statistic: 943.4 on 2 and 4798 DF, p-value: < 2.2e-16



```
> # Third model
> model3 <- lm(log_price~BEDS + log_sqft,ny)
>
> summary(model1)
```

Call:

```
lm(formula = log_price ~ BEDS + BATH + log_sqft, data = ny)
```

Residuals:

Min	1Q	Median	3Q	Max
-6.9226	-0.4531	-0.0618	0.4107	5.8699

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	7.745124	0.165435	46.817	< 2e-16 ***
BEDS	-0.049154	0.007063	-6.959	3.89e-12 ***
BATH	0.205291	0.009653	21.268	< 2e-16 ***
log_sqft	0.758376	0.023336	32.498	< 2e-16 ***

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.79 on 4797 degrees of freedom

Multiple R-squared: 0.4118, Adjusted R-squared: 0.4114

F-statistic: 1119 on 3 and 4797 DF, p-value: < 2.2e-16

