> print(subsectoresList[i])

[1] Industrias metalicas basicas

21 Levels: Curtido y acabado de cuero y piel, y fabricacion de productos de cuero, piel y materiales sucedaneos ...

> print(datosTotales6)

[1] 7961

> print(datosProduccion6)

[1] 7137

> summary(regA1)

Call:

felm(formula = personal\_total\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-211.46 -8.43 -0.21 8.73 340.01

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -0.06159 0.02515 -2.449 0.0144 \*

---

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

Residual standard error: 35.75 on 7653 degrees of freedom

Multiple R-squared(full model): 0.9969 Adjusted R-squared: 0.9967

Multiple R-squared(proj model): 0.0007829 Adjusted R-squared: -0.0393

F-statistic(full model): 7903 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 5.996 on 1 and 7653 DF, p-value: 0.01436

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA2)

Call:

felm(formula = obreros\_totales\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-186.249 -7.143 0.005 7.609 310.046

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses 0.02630 0.02162 1.216 0.224

Residual standard error: 30.73 on 7653 degrees of freedom

Multiple R-squared(full model): 0.996 Adjusted R-squared: 0.9958

Multiple R-squared(proj model): 0.0001932 Adjusted R-squared: -0.03991

F-statistic(full model): 6197 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.479 on 1 and 7653 DF, p-value: 0.224

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA3)

Call:

felm(formula = empleados\_totales\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-106.390 -2.102 -0.129 2.158 181.693

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -0.087890 0.009351 -9.399 <2e-16 \*\*\*

---

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

Residual standard error: 13.29 on 7653 degrees of freedom

Multiple R-squared(full model): 0.9933 Adjusted R-squared: 0.9931

Multiple R-squared(proj model): 0.01141 Adjusted R-squared: -0.02825

F-statistic(full model): 3706 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 88.34 on 1 and 7653 DF, p-value: < 2.2e-16

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA7)

Call:

felm(formula = horas\_personal\_total\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-274.994 -2.810 -0.145 2.897 79.203

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -0.007336 0.007381 -0.994 0.32

Residual standard error: 10.49 on 7653 degrees of freedom

Multiple R-squared(full model): 0.994 Adjusted R-squared: 0.9938

Multiple R-squared(proj model): 0.0001291 Adjusted R-squared: -0.03998

F-statistic(full model): 4146 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.9879 on 1 and 7653 DF, p-value: 0.3203

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA8)

Call:

felm(formula = horas\_obreros\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-198.470 -2.310 -0.086 2.454 62.015

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses 0.00813 0.00590 1.378 0.168

Residual standard error: 8.385 on 7653 degrees of freedom

Multiple R-squared(full model): 0.9933 Adjusted R-squared: 0.9931

Multiple R-squared(proj model): 0.0002481 Adjusted R-squared: -0.03986

F-statistic(full model): 3711 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.899 on 1 and 7653 DF, p-value: 0.1682

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA9)

Call:

felm(formula = horas\_empleados\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-76.523 -0.699 -0.033 0.682 36.348

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -0.015467 0.002485 -6.224 5.11e-10 \*\*\*

---

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

Residual standard error: 3.532 on 7653 degrees of freedom

Multiple R-squared(full model): 0.9901 Adjusted R-squared: 0.9897

Multiple R-squared(proj model): 0.005036 Adjusted R-squared: -0.03488

F-statistic(full model): 2494 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 38.74 on 1 and 7653 DF, p-value: 5.108e-10

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA4)

Call:

felm(formula = remuneraciones\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-25612 -166 14 156 41882

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -1.281 1.182 -1.084 0.278

Residual standard error: 1680 on 7653 degrees of freedom

Multiple R-squared(full model): 0.9891 Adjusted R-squared: 0.9887

Multiple R-squared(proj model): 0.0001536 Adjusted R-squared: -0.03996

F-statistic(full model): 2265 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.175 on 1 and 7653 DF, p-value: 0.2783

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA5)

Call:

felm(formula = salario\_obreros\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-19632.9 -82.6 7.7 84.0 28224.7

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -0.2188 0.6310 -0.347 0.729

Residual standard error: 896.8 on 7653 degrees of freedom

Multiple R-squared(full model): 0.9848 Adjusted R-squared: 0.9842

Multiple R-squared(proj model): 1.571e-05 Adjusted R-squared: -0.0401

F-statistic(full model): 1618 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.1202 on 1 and 7653 DF, p-value: 0.7288

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA6)

Call:

felm(formula = salario\_empleados\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-7356.3 -60.7 7.3 51.5 14005.0

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -0.5855 0.4462 -1.312 0.19

Residual standard error: 634.1 on 7653 degrees of freedom

Multiple R-squared(full model): 0.9817 Adjusted R-squared: 0.981

Multiple R-squared(proj model): 0.0002249 Adjusted R-squared: -0.03988

F-statistic(full model): 1339 on 307 and 7653 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.722 on 1 and 7653 DF, p-value: 0.1895

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA10)

Call:

felm(formula = cantidad\_produccion\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-3686241 -7305 -2789 6900 1783271

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -696.41 78.54 -8.867 <2e-16 \*\*\*

---

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

Residual standard error: 110400 on 6854 degrees of freedom

(824 observations deleted due to missingness)

Multiple R-squared(full model): 0.8957 Adjusted R-squared: 0.8914

Multiple R-squared(proj model): 0.01134 Adjusted R-squared: -0.02934

F-statistic(full model):208.8 on 282 and 6854 DF, p-value: < 2.2e-16

F-statistic(proj model): 78.62 on 1 and 6854 DF, p-value: < 2.2e-16

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA11)

Call:

felm(formula = valor\_produccion\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-3227942 -15914 -871 17378 2028762

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses 366.93 80.81 4.54 5.71e-06 \*\*\*

---

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

Residual standard error: 113600 on 6854 degrees of freedom

(824 observations deleted due to missingness)

Multiple R-squared(full model): 0.9308 Adjusted R-squared: 0.928

Multiple R-squared(proj model): 0.002999 Adjusted R-squared: -0.03802

F-statistic(full model): 327 on 282 and 6854 DF, p-value: < 2.2e-16

F-statistic(proj model): 20.62 on 1 and 6854 DF, p-value: 5.709e-06

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA12)

Call:

felm(formula = cantidad\_ventas\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-2740674 -5624 -2145 6578 2906641

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses -708.74 71.96 -9.849 <2e-16 \*\*\*

---

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

Residual standard error: 101100 on 6854 degrees of freedom

(824 observations deleted due to missingness)

Multiple R-squared(full model): 0.9029 Adjusted R-squared: 0.8989

Multiple R-squared(proj model): 0.01396 Adjusted R-squared: -0.02661

F-statistic(full model):225.9 on 282 and 6854 DF, p-value: < 2.2e-16

F-statistic(proj model): 97.01 on 1 and 6854 DF, p-value: < 2.2e-16

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regA13)

Call:

felm(formula = valor\_ventas\_netas\_month ~ ejecuciones\_6Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-2337914 -16534 -693 16665 1890746

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_6Meses 347.16 73.78 4.705 2.58e-06 \*\*\*

---

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

Residual standard error: 103700 on 6854 degrees of freedom

(824 observations deleted due to missingness)

Multiple R-squared(full model): 0.9422 Adjusted R-squared: 0.9398

Multiple R-squared(proj model): 0.00322 Adjusted R-squared: -0.03779

F-statistic(full model):395.8 on 282 and 6854 DF, p-value: < 2.2e-16

F-statistic(proj model): 22.14 on 1 and 6854 DF, p-value: 2.584e-06

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

>

> print('----------------------------------------------------------')

[1] "----------------------------------------------------------"

> print(datosTotales12)

[1] 7006

> print(datosProduccion12)

[1] 6282

> summary(regB1)

Call:

felm(formula = personal\_total\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-210.71 -8.75 0.00 8.05 330.04

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -0.03092 0.01640 -1.885 0.0595 .

---

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

Residual standard error: 34.14 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9972 Adjusted R-squared: 0.997

Multiple R-squared(proj model): 0.0005298 Adjusted R-squared: -0.0445

F-statistic(full model): 7796 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 3.553 on 1 and 6703 DF, p-value: 0.05948

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB2)

Call:

felm(formula = obreros\_totales\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-187.032 -7.338 0.228 6.954 297.445

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses 0.01297 0.01414 0.918 0.359

Residual standard error: 29.43 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9964 Adjusted R-squared: 0.9962

Multiple R-squared(proj model): 0.0001256 Adjusted R-squared: -0.04492

F-statistic(full model): 6084 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.8419 on 1 and 6703 DF, p-value: 0.3589

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB3)

Call:

felm(formula = empleados\_totales\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-92.281 -2.140 -0.011 1.969 203.705

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -0.043891 0.005788 -7.583 3.82e-14 \*\*\*

---

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

Residual standard error: 12.05 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9945 Adjusted R-squared: 0.9943

Multiple R-squared(proj model): 0.008506 Adjusted R-squared: -0.03616

F-statistic(full model): 4046 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 57.51 on 1 and 6703 DF, p-value: 3.821e-14

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB7)

Call:

felm(formula = horas\_personal\_total\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-271.862 -2.670 -0.110 2.776 76.572

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -0.003802 0.004953 -0.768 0.443

Residual standard error: 10.31 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9943 Adjusted R-squared: 0.994

Multiple R-squared(proj model): 8.79e-05 Adjusted R-squared: -0.04496

F-statistic(full model): 3853 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.5893 on 1 and 6703 DF, p-value: 0.4427

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB8)

Call:

felm(formula = horas\_obreros\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-198.400 -2.234 -0.062 2.325 60.231

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses 0.004288 0.003933 1.09 0.276

Residual standard error: 8.188 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9937 Adjusted R-squared: 0.9934

Multiple R-squared(proj model): 0.0001773 Adjusted R-squared: -0.04487

F-statistic(full model): 3496 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.188 on 1 and 6703 DF, p-value: 0.2757

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB9)

Call:

felm(formula = horas\_empleados\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-73.463 -0.653 -0.048 0.691 40.365

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -0.00809 0.00161 -5.024 5.19e-07 \*\*\*

---

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

Residual standard error: 3.352 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9911 Adjusted R-squared: 0.9907

Multiple R-squared(proj model): 0.003751 Adjusted R-squared: -0.04113

F-statistic(full model): 2484 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 25.24 on 1 and 6703 DF, p-value: 5.194e-07

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB4)

Call:

felm(formula = remuneraciones\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-28006 -173 13 159 39510

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -0.8447 0.7915 -1.067 0.286

Residual standard error: 1648 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9898 Adjusted R-squared: 0.9893

Multiple R-squared(proj model): 0.0001699 Adjusted R-squared: -0.04488

F-statistic(full model): 2155 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.139 on 1 and 6703 DF, p-value: 0.2859

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB5)

Call:

felm(formula = salario\_obreros\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-20494.9 -86.8 5.2 86.3 27730.1

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -0.09703 0.43550 -0.223 0.824

Residual standard error: 906.6 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9849 Adjusted R-squared: 0.9842

Multiple R-squared(proj model): 7.405e-06 Adjusted R-squared: -0.04505

F-statistic(full model): 1447 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.04964 on 1 and 6703 DF, p-value: 0.8237

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB6)

Call:

felm(formula = salario\_empleados\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-8079.0 -61.1 8.4 51.6 13169.2

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -0.4888 0.2940 -1.663 0.0964 .

---

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

Residual standard error: 611.9 on 6703 degrees of freedom

Multiple R-squared(full model): 0.9834 Adjusted R-squared: 0.9826

Multiple R-squared(proj model): 0.0004122 Adjusted R-squared: -0.04462

F-statistic(full model): 1313 on 302 and 6703 DF, p-value: < 2.2e-16

F-statistic(proj model): 2.764 on 1 and 6703 DF, p-value: 0.09643

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB10)

Call:

felm(formula = cantidad\_produccion\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-3542857 -7886 -1666 7435 1937832

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -374.43 54.34 -6.89 6.14e-12 \*\*\*

---

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

Residual standard error: 112100 on 6004 degrees of freedom

(724 observations deleted due to missingness)

Multiple R-squared(full model): 0.8866 Adjusted R-squared: 0.8814

Multiple R-squared(proj model): 0.007845 Adjusted R-squared: -0.03793

F-statistic(full model):169.5 on 277 and 6004 DF, p-value: < 2.2e-16

F-statistic(proj model): 47.48 on 1 and 6004 DF, p-value: 6.137e-12

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB11)

Call:

felm(formula = valor\_produccion\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-3233253 -16479 -2129 19965 1977912

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses 313.24 56.91 5.504 3.87e-08 \*\*\*

---

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

Residual standard error: 117400 on 6004 degrees of freedom

(724 observations deleted due to missingness)

Multiple R-squared(full model): 0.9277 Adjusted R-squared: 0.9244

Multiple R-squared(proj model): 0.00502 Adjusted R-squared: -0.04088

F-statistic(full model):278.1 on 277 and 6004 DF, p-value: < 2.2e-16

F-statistic(proj model): 30.29 on 1 and 6004 DF, p-value: 3.871e-08

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB12)

Call:

felm(formula = cantidad\_ventas\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-2605865 -5869 -1406 6688 3044168

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses -410.79 49.91 -8.23 2.27e-16 \*\*\*

---

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

Residual standard error: 102900 on 6004 degrees of freedom

(724 observations deleted due to missingness)

Multiple R-squared(full model): 0.8936 Adjusted R-squared: 0.8887

Multiple R-squared(proj model): 0.01116 Adjusted R-squared: -0.03447

F-statistic(full model):182.1 on 277 and 6004 DF, p-value: < 2.2e-16

F-statistic(proj model): 67.74 on 1 and 6004 DF, p-value: 2.272e-16

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regB13)

Call:

felm(formula = valor\_ventas\_netas\_month ~ ejecuciones\_12Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-2353536 -16654 -2379 18512 1835777

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_12Meses 280.66 51.93 5.404 6.76e-08 \*\*\*

---

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

Residual standard error: 107100 on 6004 degrees of freedom

(724 observations deleted due to missingness)

Multiple R-squared(full model): 0.9397 Adjusted R-squared: 0.9369

Multiple R-squared(proj model): 0.004841 Adjusted R-squared: -0.04107

F-statistic(full model):337.9 on 277 and 6004 DF, p-value: < 2.2e-16

F-statistic(proj model): 29.21 on 1 and 6004 DF, p-value: 6.755e-08

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

>

> print('----------------------------------------------------------')

[1] "----------------------------------------------------------"

> print(datosTotales24)

[1] 4774

> print(datosProduccion24)

[1] 4270

> summary(regC1)

Call:

felm(formula = personal\_total\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-273.000 -6.080 0.442 5.585 304.423

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -0.01330 0.01402 -0.949 0.343

Residual standard error: 28.4 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9981 Adjusted R-squared: 0.998

Multiple R-squared(proj model): 0.0002003 Adjusted R-squared: -0.06163

F-statistic(full model): 8428 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.9003 on 1 and 4495 DF, p-value: 0.3427

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC2)

Call:

felm(formula = obreros\_totales\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-248.509 -5.222 0.387 5.072 259.767

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -0.01318 0.01228 -1.073 0.283

Residual standard error: 24.87 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9975 Adjusted R-squared: 0.9973

Multiple R-squared(proj model): 0.0002563 Adjusted R-squared: -0.06157

F-statistic(full model): 6393 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.152 on 1 and 4495 DF, p-value: 0.2831

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC3)

Call:

felm(formula = empleados\_totales\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-71.066 -1.425 0.040 1.188 118.466

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -0.0001207 0.0037940 -0.032 0.975

Residual standard error: 7.683 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9978 Adjusted R-squared: 0.9977

Multiple R-squared(proj model): 2.253e-07 Adjusted R-squared: -0.06185

F-statistic(full model): 7359 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.001013 on 1 and 4495 DF, p-value: 0.9746

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC7)

Call:

felm(formula = horas\_personal\_total\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-256.612 -2.174 -0.026 2.274 76.678

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses 0.0003884 0.0048714 0.08 0.936

Residual standard error: 9.865 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9949 Adjusted R-squared: 0.9945

Multiple R-squared(proj model): 1.414e-06 Adjusted R-squared: -0.06184

F-statistic(full model): 3132 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.006357 on 1 and 4495 DF, p-value: 0.9365

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC8)

Call:

felm(formula = horas\_obreros\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-192.575 -1.808 -0.036 1.855 56.358

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses 0.0009409 0.0039002 0.241 0.809

Residual standard error: 7.898 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9943 Adjusted R-squared: 0.9939

Multiple R-squared(proj model): 1.295e-05 Adjusted R-squared: -0.06183

F-statistic(full model): 2805 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.05819 on 1 and 4495 DF, p-value: 0.8094

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC9)

Call:

felm(formula = horas\_empleados\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-64.037 -0.543 -0.022 0.524 28.089

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -0.0005525 0.0013393 -0.413 0.68

Residual standard error: 2.712 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9942 Adjusted R-squared: 0.9939

Multiple R-squared(proj model): 3.785e-05 Adjusted R-squared: -0.06181

F-statistic(full model): 2793 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.1702 on 1 and 4495 DF, p-value: 0.68

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC4)

Call:

felm(formula = remuneraciones\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-32508 -169 25 184 37807

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -1.8172 0.8415 -2.16 0.0309 \*

---

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

Residual standard error: 1704 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9897 Adjusted R-squared: 0.9891

Multiple R-squared(proj model): 0.001037 Adjusted R-squared: -0.06075

F-statistic(full model): 1554 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 4.664 on 1 and 4495 DF, p-value: 0.03085

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC5)

Call:

felm(formula = salario\_obreros\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-21974.2 -84.9 10.7 101.2 26455.7

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -0.9993 0.4960 -2.015 0.044 \*

---

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

Residual standard error: 1004 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9824 Adjusted R-squared: 0.9814

Multiple R-squared(proj model): 0.0009024 Adjusted R-squared: -0.06089

F-statistic(full model):905.1 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 4.06 on 1 and 4495 DF, p-value: 0.04398

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC6)

Call:

felm(formula = salario\_empleados\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-9527.2 -59.9 12.4 58.0 13148.1

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -0.7420 0.2874 -2.582 0.00987 \*\*

---

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

Residual standard error: 582.1 on 4495 degrees of freedom

Multiple R-squared(full model): 0.9857 Adjusted R-squared: 0.9848

Multiple R-squared(proj model): 0.00148 Adjusted R-squared: -0.06027

F-statistic(full model): 1114 on 278 and 4495 DF, p-value: < 2.2e-16

F-statistic(proj model): 6.664 on 1 and 4495 DF, p-value: 0.009867

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC10)

Call:

felm(formula = cantidad\_produccion\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-2867128 -5163 -1915 5565 2622381

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses 44.35 47.55 0.933 0.351

Residual standard error: 95420 on 4012 degrees of freedom

(504 observations deleted due to missingness)

Multiple R-squared(full model): 0.8854 Adjusted R-squared: 0.8781

Multiple R-squared(proj model): 0.0002168 Adjusted R-squared: -0.06383

F-statistic(full model):120.7 on 257 and 4012 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.87 on 1 and 4012 DF, p-value: 0.351

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC11)

Call:

felm(formula = valor\_produccion\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-3114680 -15180 -1192 15659 2034584

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses 449.98 58.72 7.664 2.25e-14 \*\*\*

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

Residual standard error: 117800 on 4012 degrees of freedom

(504 observations deleted due to missingness)

Multiple R-squared(full model): 0.922 Adjusted R-squared: 0.917

Multiple R-squared(proj model): 0.01443 Adjusted R-squared: -0.04871

F-statistic(full model):184.5 on 257 and 4012 DF, p-value: < 2.2e-16

F-statistic(proj model): 58.73 on 1 and 4012 DF, p-value: 2.251e-14

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC12)

Call:

felm(formula = cantidad\_ventas\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-1932258 -3347 -138 3541 2860009

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses -0.3514 39.1179 -0.009 0.993

Residual standard error: 78490 on 4012 degrees of freedom

(504 observations deleted due to missingness)

Multiple R-squared(full model): 0.9094 Adjusted R-squared: 0.9036

Multiple R-squared(proj model): 2.012e-08 Adjusted R-squared: -0.06406

F-statistic(full model):156.8 on 257 and 4012 DF, p-value: < 2.2e-16

F-statistic(proj model): 8.072e-05 on 1 and 4012 DF, p-value: 0.9928

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE

> summary(regC13)

Call:

felm(formula = valor\_ventas\_netas\_month ~ ejecuciones\_24Meses | absMes + municipio\_Estado + empresaID, data = data)

Residuals:

Min 1Q Median 3Q Max

-2251804 -16717 780 15292 1882657

Coefficients:

Estimate Std. Error t value Pr(>|t|)

ejecuciones\_24Meses 392.04 52.64 7.447 1.16e-13 \*\*\*

---

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

Residual standard error: 105600 on 4012 degrees of freedom

(504 observations deleted due to missingness)

Multiple R-squared(full model): 0.9376 Adjusted R-squared: 0.9336

Multiple R-squared(proj model): 0.01363 Adjusted R-squared: -0.04955

F-statistic(full model):234.5 on 257 and 4012 DF, p-value: < 2.2e-16

F-statistic(proj model): 55.46 on 1 and 4012 DF, p-value: 1.162e-13

\*\*\* Standard errors may be too high due to more than 2 groups and exactDOF=FALSE