> print(subsectoresList[i])

[1] Fabricacion de productos a base de minerales no metalicos

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

> print(datosTotales6)

[1] 23268

> print(datosProduccion6)

[1] 18458

> summary(regA1)

Call:

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

Residuals:

Min 1Q Median 3Q Max

-649.09 -7.76 0.46 6.76 761.71

Coefficients:

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

ejecuciones\_6Meses 2.127e-05 4.086e-03 0.005 0.996

Residual standard error: 42.34 on 22438 degrees of freedom

Multiple R-squared(full model): 0.9814 Adjusted R-squared: 0.9807

Multiple R-squared(proj model): 1.208e-09 Adjusted R-squared: -0.03695

F-statistic(full model): 1426 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 2.71e-05 on 1 and 22438 DF, p-value: 0.9958

\*\*\* 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

-816.14 -5.66 0.27 5.17 671.30

Coefficients:

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

ejecuciones\_6Meses 0.008944 0.003885 2.302 0.0213 \*

---

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

Residual standard error: 40.25 on 22438 degrees of freedom

Multiple R-squared(full model): 0.9781 Adjusted R-squared: 0.9773

Multiple R-squared(proj model): 0.0002362 Adjusted R-squared: -0.0367

F-statistic(full model): 1207 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 5.301 on 1 and 22438 DF, p-value: 0.02133

\*\*\* 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

-180.53 -1.87 0.31 1.96 688.84

Coefficients:

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

ejecuciones\_6Meses -0.008923 0.001838 -4.854 1.22e-06 \*\*\*

---

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

Residual standard error: 19.05 on 22438 degrees of freedom

Multiple R-squared(full model): 0.8862 Adjusted R-squared: 0.882

Multiple R-squared(proj model): 0.001049 Adjusted R-squared: -0.03586

F-statistic(full model):210.8 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 23.56 on 1 and 22438 DF, p-value: 1.221e-06

\*\*\* 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

-140.76 -1.89 0.06 1.57 328.07

Coefficients:

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

ejecuciones\_6Meses -0.0003423 0.0010275 -0.333 0.739

Residual standard error: 10.65 on 22438 degrees of freedom

Multiple R-squared(full model): 0.9765 Adjusted R-squared: 0.9757

Multiple R-squared(proj model): 4.947e-06 Adjusted R-squared: -0.03694

F-statistic(full model): 1126 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.111 on 1 and 22438 DF, p-value: 0.739

\*\*\* 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

-196.42 -1.38 -0.02 1.19 329.95

Coefficients:

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

ejecuciones\_6Meses 0.0018422 0.0009933 1.855 0.0637 .

---

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

Residual standard error: 10.29 on 22438 degrees of freedom

Multiple R-squared(full model): 0.9712 Adjusted R-squared: 0.9701

Multiple R-squared(proj model): 0.0001533 Adjusted R-squared: -0.03679

F-statistic(full model):911.6 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 3.44 on 1 and 22438 DF, p-value: 0.06365

\*\*\* 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

-41.269 -0.516 0.059 0.448 172.834

Coefficients:

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

ejecuciones\_6Meses -0.002184 0.000429 -5.092 3.56e-07 \*\*\*

---

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

Residual standard error: 4.445 on 22438 degrees of freedom

Multiple R-squared(full model): 0.8763 Adjusted R-squared: 0.8717

Multiple R-squared(proj model): 0.001154 Adjusted R-squared: -0.03575

F-statistic(full model):191.7 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 25.93 on 1 and 22438 DF, p-value: 3.563e-07

\*\*\* 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

-12969 -70 19 84 51191

Coefficients:

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

ejecuciones\_6Meses -0.3995 0.1159 -3.449 0.000564 \*\*\*

---

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

Residual standard error: 1200 on 22438 degrees of freedom

Multiple R-squared(full model): 0.9202 Adjusted R-squared: 0.9172

Multiple R-squared(proj model): 0.0005298 Adjusted R-squared: -0.0364

F-statistic(full model):312.1 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 11.89 on 1 and 22438 DF, p-value: 0.0005643

\*\*\* 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

-10683.7 -42.5 6.3 44.8 27033.5

Coefficients:

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

ejecuciones\_6Meses 0.05095 0.05826 0.875 0.382

Residual standard error: 603.6 on 22438 degrees of freedom

Multiple R-squared(full model): 0.903 Adjusted R-squared: 0.8994

Multiple R-squared(proj model): 3.409e-05 Adjusted R-squared: -0.03691

F-statistic(full model):251.8 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.765 on 1 and 22438 DF, p-value: 0.3818

\*\*\* 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

-9915 -20 6 28 33171

Coefficients:

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

ejecuciones\_6Meses -0.3979 0.0555 -7.169 7.82e-13 \*\*\*

---

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

Residual standard error: 575.1 on 22438 degrees of freedom

Multiple R-squared(full model): 0.8588 Adjusted R-squared: 0.8535

Multiple R-squared(proj model): 0.002285 Adjusted R-squared: -0.03458

F-statistic(full model):164.6 on 829 and 22438 DF, p-value: < 2.2e-16

F-statistic(proj model): 51.39 on 1 and 22438 DF, p-value: 7.817e-13

\*\*\* 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

-4594674 -5510 -1418 4232 3569875

Coefficients:

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

ejecuciones\_6Meses 15.91 10.88 1.462 0.144

Residual standard error: 98100 on 17786 degrees of freedom

(4810 observations deleted due to missingness)

Multiple R-squared(full model): 0.9744 Adjusted R-squared: 0.9734

Multiple R-squared(proj model): 0.0001202 Adjusted R-squared: -0.0376

F-statistic(full model): 1008 on 671 and 17786 DF, p-value: < 2.2e-16

F-statistic(proj model): 2.138 on 1 and 17786 DF, p-value: 0.1437

\*\*\* 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

-150612 -1156 -119 1092 110143

Coefficients:

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

ejecuciones\_6Meses -4.708 1.026 -4.588 4.5e-06 \*\*\*

---

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

Residual standard error: 9253 on 17786 degrees of freedom

(4810 observations deleted due to missingness)

Multiple R-squared(full model): 0.9623 Adjusted R-squared: 0.9609

Multiple R-squared(proj model): 0.001182 Adjusted R-squared: -0.0365

F-statistic(full model): 677 on 671 and 17786 DF, p-value: < 2.2e-16

F-statistic(proj model): 21.05 on 1 and 17786 DF, p-value: 4.5e-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

-4936406 -6070 -1192 3855 4030643

Coefficients:

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

ejecuciones\_6Meses 17.90 11.33 1.579 0.114

Residual standard error: 102200 on 17786 degrees of freedom

(4810 observations deleted due to missingness)

Multiple R-squared(full model): 0.9727 Adjusted R-squared: 0.9717

Multiple R-squared(proj model): 0.0001402 Adjusted R-squared: -0.03758

F-statistic(full model):944.5 on 671 and 17786 DF, p-value: < 2.2e-16

F-statistic(proj model): 2.493 on 1 and 17786 DF, p-value: 0.1144

\*\*\* 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

-105919 -1282 -124 1114 109638

Coefficients:

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

ejecuciones\_6Meses -4.968 1.035 -4.802 1.59e-06 \*\*\*

---

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

Residual standard error: 9331 on 17786 degrees of freedom

(4810 observations deleted due to missingness)

Multiple R-squared(full model): 0.9614 Adjusted R-squared: 0.9599

Multiple R-squared(proj model): 0.001295 Adjusted R-squared: -0.03638

F-statistic(full model):659.6 on 671 and 17786 DF, p-value: < 2.2e-16

F-statistic(proj model): 23.06 on 1 and 17786 DF, p-value: 1.586e-06

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

>

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

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

> print(datosTotales12)

[1] 20480

> print(datosProduccion12)

[1] 16200

> summary(regB1)

Call:

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

Residuals:

Min 1Q Median 3Q Max

-733.79 -7.72 0.97 5.98 814.21

Coefficients:

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

ejecuciones\_12Meses 0.0007788 0.0022075 0.353 0.724

Residual standard error: 37.52 on 19655 degrees of freedom

Multiple R-squared(full model): 0.9853 Adjusted R-squared: 0.9846

Multiple R-squared(proj model): 6.333e-06 Adjusted R-squared: -0.04192

F-statistic(full model): 1595 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.1245 on 1 and 19655 DF, p-value: 0.7242

\*\*\* 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

-918.76 -5.79 0.53 4.59 715.54

Coefficients:

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

ejecuciones\_12Meses 0.002028 0.002042 0.993 0.321

Residual standard error: 34.71 on 19655 degrees of freedom

Multiple R-squared(full model): 0.9837 Adjusted R-squared: 0.983

Multiple R-squared(proj model): 5.016e-05 Adjusted R-squared: -0.04187

F-statistic(full model): 1436 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.986 on 1 and 19655 DF, p-value: 0.3207

\*\*\* 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

-190.30 -1.95 0.31 1.57 771.26

Coefficients:

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

ejecuciones\_12Meses -0.0012490 0.0008577 -1.456 0.145

Residual standard error: 14.58 on 19655 degrees of freedom

Multiple R-squared(full model): 0.9259 Adjusted R-squared: 0.9228

Multiple R-squared(proj model): 0.0001079 Adjusted R-squared: -0.04181

F-statistic(full model):298.2 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 2.121 on 1 and 19655 DF, p-value: 0.1453

\*\*\* 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

-158.03 -1.67 0.05 1.32 334.95

Coefficients:

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

ejecuciones\_12Meses -0.0001230 0.0005767 -0.213 0.831

Residual standard error: 9.802 on 19655 degrees of freedom

Multiple R-squared(full model): 0.98 Adjusted R-squared: 0.9792

Multiple R-squared(proj model): 2.315e-06 Adjusted R-squared: -0.04192

F-statistic(full model): 1169 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.04551 on 1 and 19655 DF, p-value: 0.8311

\*\*\* 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

-221.37 -1.30 0.01 1.02 336.85

Coefficients:

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

ejecuciones\_12Meses 0.0001987 0.0005427 0.366 0.714

Residual standard error: 9.225 on 19655 degrees of freedom

Multiple R-squared(full model): 0.9769 Adjusted R-squared: 0.9759

Multiple R-squared(proj model): 6.82e-06 Adjusted R-squared: -0.04192

F-statistic(full model): 1007 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.1341 on 1 and 19655 DF, p-value: 0.7143

\*\*\* 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

-42.807 -0.481 0.089 0.356 190.697

Coefficients:

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

ejecuciones\_12Meses -0.0003217 0.0001983 -1.623 0.105

Residual standard error: 3.37 on 19655 degrees of freedom

Multiple R-squared(full model): 0.9194 Adjusted R-squared: 0.916

Multiple R-squared(proj model): 0.000134 Adjusted R-squared: -0.04178

F-statistic(full model):272.2 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 2.633 on 1 and 19655 DF, p-value: 0.1047

\*\*\* 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

-14629 -66 24 86 51136

Coefficients:

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

ejecuciones\_12Meses -0.20762 0.06965 -2.981 0.00288 \*\*

---

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

Residual standard error: 1184 on 19655 degrees of freedom

Multiple R-squared(full model): 0.925 Adjusted R-squared: 0.9219

Multiple R-squared(proj model): 0.0004518 Adjusted R-squared: -0.04145

F-statistic(full model):294.2 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 8.884 on 1 and 19655 DF, p-value: 0.00288

\*\*\* 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

-10591.0 -39.7 6.8 38.0 26271.2

Coefficients:

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

ejecuciones\_12Meses -0.004602 0.033171 -0.139 0.89

Residual standard error: 563.8 on 19655 degrees of freedom

Multiple R-squared(full model): 0.9198 Adjusted R-squared: 0.9164

Multiple R-squared(proj model): 9.791e-07 Adjusted R-squared: -0.04192

F-statistic(full model):273.4 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.01925 on 1 and 19655 DF, p-value: 0.8897

\*\*\* 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

-9907 -22 10 26 33169

Coefficients:

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

ejecuciones\_12Meses -0.1780 0.0342 -5.204 1.97e-07 \*\*\*

---

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

Residual standard error: 581.3 on 19655 degrees of freedom

Multiple R-squared(full model): 0.8586 Adjusted R-squared: 0.8527

Multiple R-squared(proj model): 0.001376 Adjusted R-squared: -0.04049

F-statistic(full model):144.8 on 824 and 19655 DF, p-value: < 2.2e-16

F-statistic(proj model): 27.08 on 1 and 19655 DF, p-value: 1.974e-07

\*\*\* 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

-4589698 -5686 -1633 5530 3575457

Coefficients:

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

ejecuciones\_12Meses 6.981 7.051 0.99 0.322

Residual standard error: 102400 on 15533 degrees of freedom

(4280 observations deleted due to missingness)

Multiple R-squared(full model): 0.9725 Adjusted R-squared: 0.9713

Multiple R-squared(proj model): 6.31e-05 Adjusted R-squared: -0.04281

F-statistic(full model):824.1 on 666 and 15533 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.9801 on 1 and 15533 DF, p-value: 0.3222

\*\*\* 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

-150614 -1181 -60 1112 104438

Coefficients:

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

ejecuciones\_12Meses -2.1965 0.6321 -3.475 0.000513 \*\*\*

---

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

Residual standard error: 9180 on 15533 degrees of freedom

(4280 observations deleted due to missingness)

Multiple R-squared(full model): 0.9636 Adjusted R-squared: 0.962

Multiple R-squared(proj model): 0.0007767 Adjusted R-squared: -0.04207

F-statistic(full model):616.9 on 666 and 15533 DF, p-value: < 2.2e-16

F-statistic(proj model): 12.07 on 1 and 15533 DF, p-value: 0.0005128

\*\*\* 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

-4962102 -6484 -1323 4110 4004319

Coefficients:

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

ejecuciones\_12Meses 9.705 7.390 1.313 0.189

Residual standard error: 107300 on 15533 degrees of freedom

(4280 observations deleted due to missingness)

Multiple R-squared(full model): 0.9704 Adjusted R-squared: 0.9692

Multiple R-squared(proj model): 0.000111 Adjusted R-squared: -0.04276

F-statistic(full model):765.3 on 666 and 15533 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.725 on 1 and 15533 DF, p-value: 0.1891

\*\*\* 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

-107349 -1329 -62 1153 103912

Coefficients:

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

ejecuciones\_12Meses -2.4176 0.6312 -3.83 0.000129 \*\*\*

---

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

Residual standard error: 9166 on 15533 degrees of freedom

(4280 observations deleted due to missingness)

Multiple R-squared(full model): 0.9632 Adjusted R-squared: 0.9616

Multiple R-squared(proj model): 0.0009435 Adjusted R-squared: -0.04189

F-statistic(full model):610.4 on 666 and 15533 DF, p-value: < 2.2e-16

F-statistic(proj model): 14.67 on 1 and 15533 DF, p-value: 0.0001286

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

>

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

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

> print(datosTotales24)

[1] 13927

> print(datosProduccion24)

[1] 10899

> summary(regC1)

Call:

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

Residuals:

Min 1Q Median 3Q Max

-462.07 -3.14 0.27 2.78 473.51

Coefficients:

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

ejecuciones\_24Meses 0.001257 0.001524 0.825 0.409

Residual standard error: 28.19 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9914 Adjusted R-squared: 0.9909

Multiple R-squared(proj model): 5.184e-05 Adjusted R-squared: -0.05992

F-statistic(full model): 1926 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.6811 on 1 and 13138 DF, p-value: 0.4092

\*\*\* 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

-387.33 -2.77 0.37 2.45 450.41

Coefficients:

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

ejecuciones\_24Meses 0.001463 0.001401 1.044 0.296

Residual standard error: 25.92 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9907 Adjusted R-squared: 0.9901

Multiple R-squared(proj model): 8.298e-05 Adjusted R-squared: -0.05989

F-statistic(full model): 1776 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 1.09 on 1 and 13138 DF, p-value: 0.2964

\*\*\* 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

-88.665 -0.777 0.201 0.537 268.302

Coefficients:

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

ejecuciones\_24Meses -0.0002053 0.0003593 -0.571 0.568

Residual standard error: 6.648 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9828 Adjusted R-squared: 0.9818

Multiple R-squared(proj model): 2.484e-05 Adjusted R-squared: -0.05995

F-statistic(full model):952.1 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.3264 on 1 and 13138 DF, p-value: 0.5678

\*\*\* 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

-128.01 -1.01 0.02 0.76 344.21

Coefficients:

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

ejecuciones\_24Meses 0.0001824 0.0004852 0.376 0.707

Residual standard error: 8.978 on 13138 degrees of freedom

Multiple R-squared(full model): 0.983 Adjusted R-squared: 0.982

Multiple R-squared(proj model): 1.076e-05 Adjusted R-squared: -0.05997

F-statistic(full model):965.7 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.1413 on 1 and 13138 DF, p-value: 0.707

\*\*\* 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

-123.26 -0.89 0.02 0.67 345.92

Coefficients:

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

ejecuciones\_24Meses 0.0002445 0.0004528 0.54 0.589

Residual standard error: 8.378 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9809 Adjusted R-squared: 0.9798

Multiple R-squared(proj model): 2.22e-05 Adjusted R-squared: -0.05996

F-statistic(full model):858.1 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.2916 on 1 and 13138 DF, p-value: 0.5892

\*\*\* 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

-21.569 -0.187 0.016 0.152 64.657

Coefficients:

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

ejecuciones\_24Meses -6.213e-05 8.655e-05 -0.718 0.473

Residual standard error: 1.601 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9793 Adjusted R-squared: 0.9781

Multiple R-squared(proj model): 3.922e-05 Adjusted R-squared: -0.05994

F-statistic(full model):790.2 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.5153 on 1 and 13138 DF, p-value: 0.4729

\*\*\* 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

-12362 -54 34 89 46846

Coefficients:

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

ejecuciones\_24Meses -0.08415 0.05720 -1.471 0.141

Residual standard error: 1058 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9417 Adjusted R-squared: 0.9382

Multiple R-squared(proj model): 0.0001647 Adjusted R-squared: -0.0598

F-statistic(full model):269.3 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 2.164 on 1 and 13138 DF, p-value: 0.1413

\*\*\* 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

-6537.1 -33.6 11.1 41.4 24597.6

Coefficients:

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

ejecuciones\_24Meses -0.007629 0.027617 -0.276 0.782

Residual standard error: 511 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9385 Adjusted R-squared: 0.9348

Multiple R-squared(proj model): 5.808e-06 Adjusted R-squared: -0.05997

F-statistic(full model):254.4 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.0763 on 1 and 13138 DF, p-value: 0.7824

\*\*\* 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

-7382.5 -8.7 11.2 24.7 18279.1

Coefficients:

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

ejecuciones\_24Meses -0.08739 0.02335 -3.742 0.000183 \*\*\*

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

Residual standard error: 432 on 13138 degrees of freedom

Multiple R-squared(full model): 0.9176 Adjusted R-squared: 0.9127

Multiple R-squared(proj model): 0.001065 Adjusted R-squared: -0.05885

F-statistic(full model):185.7 on 788 and 13138 DF, p-value: < 2.2e-16

F-statistic(proj model): 14.01 on 1 and 13138 DF, p-value: 0.000183

\*\*\* 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

-4365733 -6096 -2178 7705 3799767

Coefficients:

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

ejecuciones\_24Meses 3.243 7.448 0.435 0.663

Residual standard error: 114000 on 10272 degrees of freedom

(3028 observations deleted due to missingness)

Multiple R-squared(full model): 0.966 Adjusted R-squared: 0.9639

Multiple R-squared(proj model): 1.846e-05 Adjusted R-squared: -0.06092

F-statistic(full model):465.6 on 626 and 10272 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.1896 on 1 and 10272 DF, p-value: 0.6632

\*\*\* 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

-151154 -1139 -100 1042 95632

Coefficients:

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

ejecuciones\_24Meses -0.2604 0.5735 -0.454 0.65

Residual standard error: 8777 on 10272 degrees of freedom

(3028 observations deleted due to missingness)

Multiple R-squared(full model): 0.9679 Adjusted R-squared: 0.9659

Multiple R-squared(proj model): 2.007e-05 Adjusted R-squared: -0.06092

F-statistic(full model):494.1 on 626 and 10272 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.2061 on 1 and 10272 DF, p-value: 0.6498

\*\*\* 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

-4617479 -5645 -1516 7301 3714290

Coefficients:

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

ejecuciones\_24Meses 3.738 7.563 0.494 0.621

Residual standard error: 115800 on 10272 degrees of freedom

(3028 observations deleted due to missingness)

Multiple R-squared(full model): 0.9649 Adjusted R-squared: 0.9628

Multiple R-squared(proj model): 2.378e-05 Adjusted R-squared: -0.06092

F-statistic(full model):451.4 on 626 and 10272 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.2443 on 1 and 10272 DF, p-value: 0.6211

\*\*\* 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

-102759 -1302 -41 1057 103272

Coefficients:

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

ejecuciones\_24Meses -0.4042 0.5827 -0.694 0.488

Residual standard error: 8919 on 10272 degrees of freedom

(3028 observations deleted due to missingness)

Multiple R-squared(full model): 0.9665 Adjusted R-squared: 0.9644

Multiple R-squared(proj model): 4.684e-05 Adjusted R-squared: -0.06089

F-statistic(full model):472.7 on 626 and 10272 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.4811 on 1 and 10272 DF, p-value: 0.4879

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