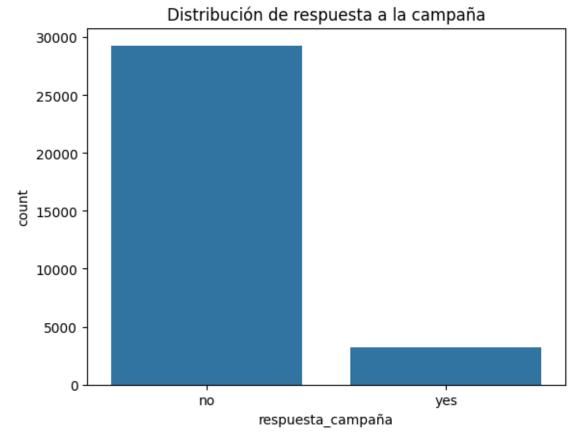
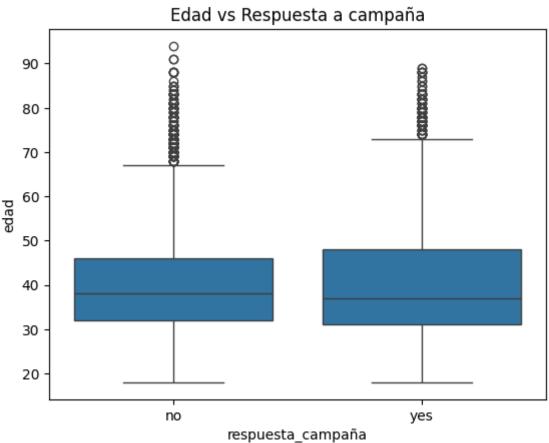
ANEXO: GRÁFICAS Y TABLAS

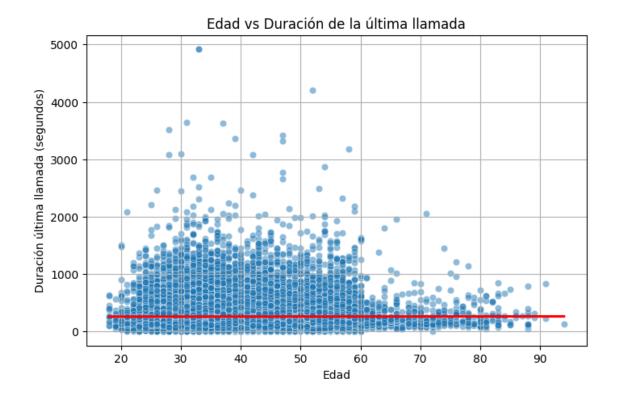
| | Variable | Media | Mediana | Moda |
|---|-----------------------|--------------|-----------|-----------|
| 0 | edad | 39.713573 | 38.000 | 31.000 |
| 1 | IPC | 93.695645 | 93.918 | 93.994 |
| 2 | ingresos | 93071.656809 | 92973.500 | 70422.000 |
| 3 | hijos_pequeños | 1.004646 | 1.000 | 2.000 |
| 4 | hijos_adolescentes | 0.999550 | 1.000 | 1.000 |
| 5 | total_hijos | 2.004196 | 2.000 | 2.000 |
| 6 | tasa_variacion_empleo | 0.379559 | 1.100 | 1.400 |

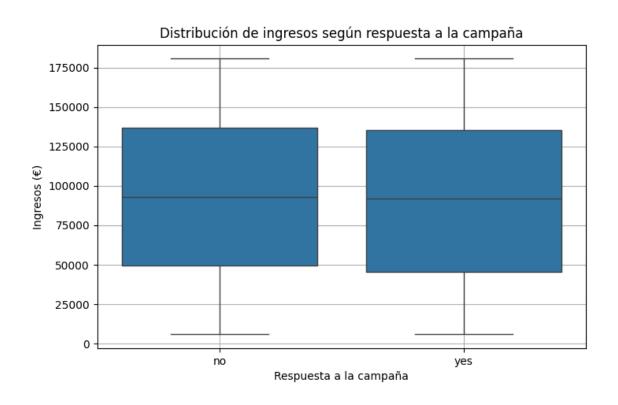
| | Categoría | Frecuencia | Variable |
|---|-----------------------|------------|-----------------|
| 0 | Primaria | 10078 | Nivel educativo |
| 1 | Grado Universitario | 9512 | Nivel educativo |
| 2 | Instituto | 7783 | Nivel educativo |
| 3 | Formación profesional | 4184 | Nivel educativo |
| 4 | NaN | 970 | Nivel educativo |
| 5 | Casado | 19652 | Estado civil |
| 6 | Soltero | 9109 | Estado civil |
| 7 | Divorciado | 3733 | Estado civil |
| 8 | NaN | 33 | Estado civil |

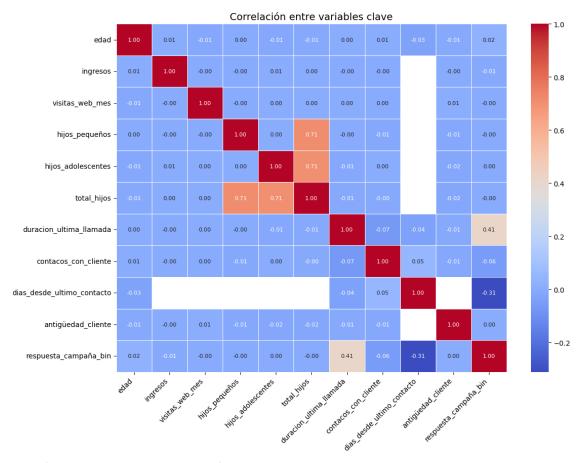
| | Categoría | Frecuencia | Variable |
|---|-----------|------------|----------------------|
| 0 | 1 | 16874 | tiene_hipoteca |
| 1 | 0 | 15132 | tiene_hipoteca |
| 2 | <na></na> | 521 | tiene_hipoteca |
| 3 | 0 | 26665 | incumplimiento_pagos |
| 4 | <na></na> | 5860 | incumplimiento_pagos |
| 5 | 1 | 2 | incumplimiento_pagos |
| 6 | 0 | 27027 | tiene_prestamo |
| 7 | 1 | 4979 | tiene_prestamo |
| 8 | <na></na> | 521 | tiene_prestamo |









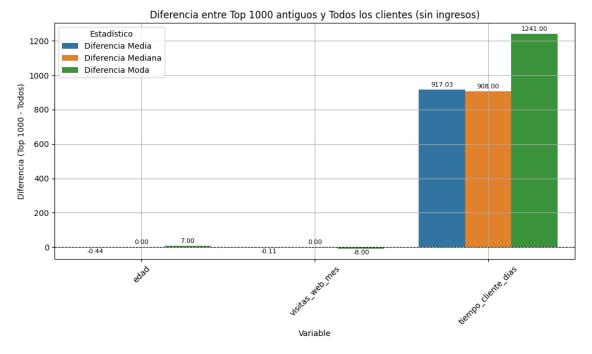


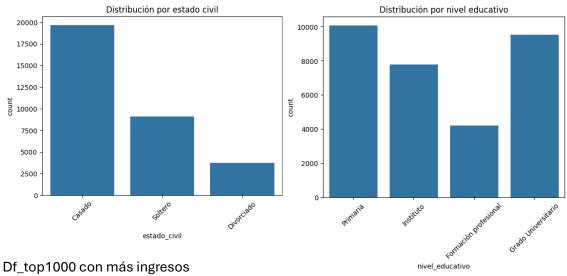
Estadísticos de tiempo_cliente_días

```
Estadísticas descriptivas:
        19909.000000
count
        1832.157919
mean
std
          538.636218
min
          739.000000
25%
          1376.000000
50%
         1833.000000
75%
         2290.000000
          2921.000000
max
Name: tiempo_cliente_dias, dtype: float64
Moda: 1509.0
Mediana: 1833.0
Desviación estándar: 538.6362179257998
```

| | Variable | | Grupo | Media | Mediana | Moda |
|---|---------------------|-------------|---------|--------------|---------|---------|
| 0 | edad | Todos los c | lientes | 39.713573 | 38.0 | 31.0 |
| 1 | edad | Top 1000 a | ntiguos | 39.273637 | 38.0 | 38.0 |
| 2 | ingresos | Todos los c | lientes | 93071.656809 | 92973.5 | 70422.0 |
| 3 | ingresos | Top 1000 a | ntiguos | 92723.268000 | 91061.0 | 10561.0 |
| 4 | visitas_web_mes | Todos los c | lientes | 16.537616 | 16.0 | 12.0 |
| 5 | visitas_web_mes | Top 1000 a | ntiguos | 16.431000 | 16.0 | 4.0 |
| 6 | tiempo_cliente_dias | Todos los c | lientes | 1832.157919 | 1833.0 | 1509.0 |
| 7 | tiempo_cliente_dias | Тор 1000 а | ntiguos | 2749.185000 | 2741.0 | 2750.0 |

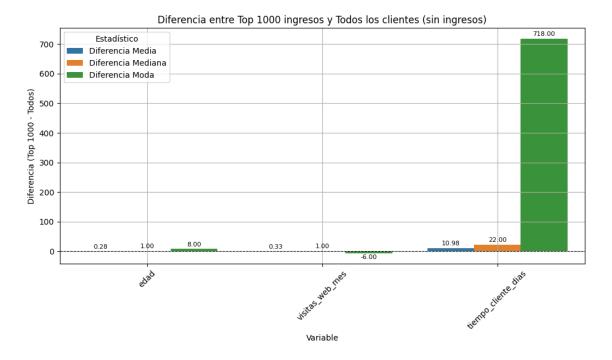
| | Variable | Diferencia Media | Diferencia Mediana | Diferencia Moda |
|---|---------------------|------------------|--------------------|-----------------|
| 0 | edad | -0.439936 | 0.0 | 7.0 |
| 1 | ingresos | -348.388809 | -1912.5 | -59861.0 |
| 2 | visitas_web_mes | -0.106616 | 0.0 | -8.0 |
| 3 | tiempo_cliente_dias | 917.027081 | 908.0 | 1241.0 |

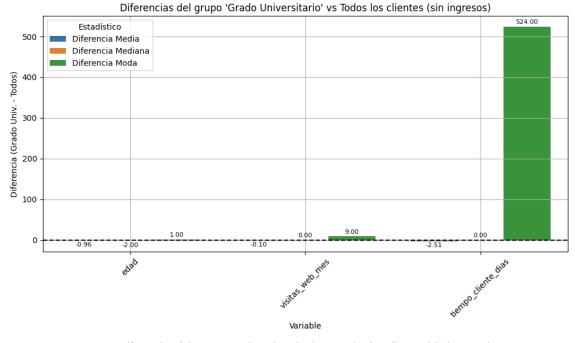


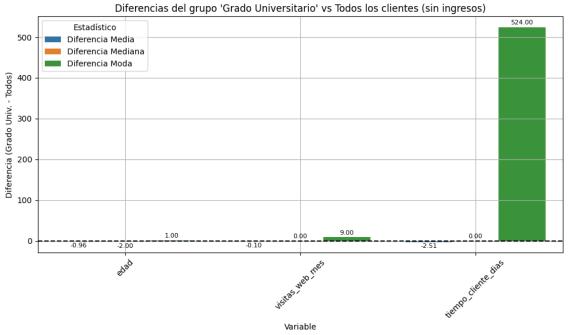


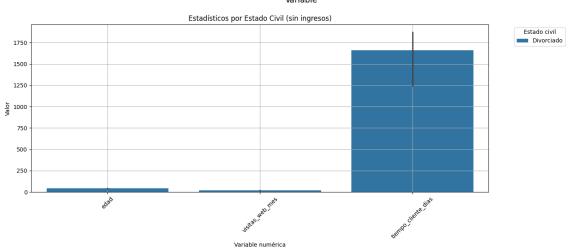
| | Variable | Grupo | Media | Mediana | Moda |
|---|---------------------|--------------------|---------------|----------|----------|
| 0 | edad | Todos los clientes | 39.713573 | 38.0 | 31.0 |
| 1 | edad | Top 1000 ingresos | 39.990022 | 39.0 | 39.0 |
| 2 | ingresos | Todos los clientes | 93071.656809 | 92973.5 | 70422.0 |
| 3 | ingresos | Top 1000 ingresos | 176434.612000 | 176391.0 | 172266.0 |
| 4 | visitas_web_mes | Todos los clientes | 16.537616 | 16.0 | 12.0 |
| 5 | visitas_web_mes | Top 1000 ingresos | 16.872000 | 17.0 | 6.0 |
| 6 | tiempo_cliente_dias | Todos los clientes | 1832.157919 | 1833.0 | 1509.0 |
| 7 | tiempo_cliente_dias | Top 1000 ingresos | 1843.137235 | 1855.0 | 2227.0 |

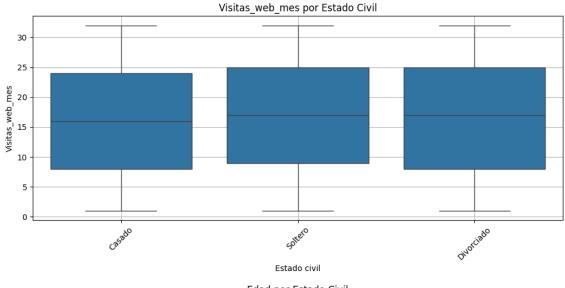
| Diferencia Media | Diferencia Mediana | Diferencia Moda |
|------------------|--------------------------------------|---|
| | | |
| 0.276449 | 1.0 | 8.0 |
| 83362.955191 | 83417.5 | 101844.0 |
| 0.334384 | 1.0 | -6.0 |
| 10.979317 | 22.0 | 718.0 |
| | 0.276449 83362.955191 0.334384 | 83362.955191 83417.5 0.334384 1.0 |

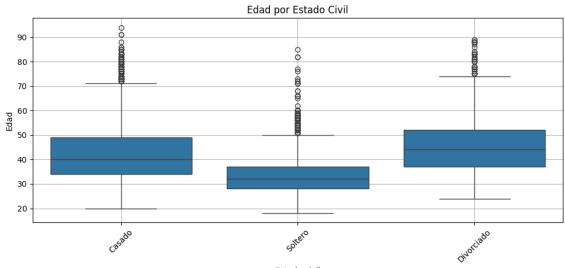


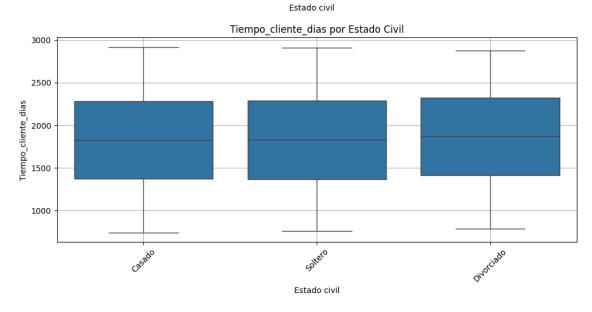


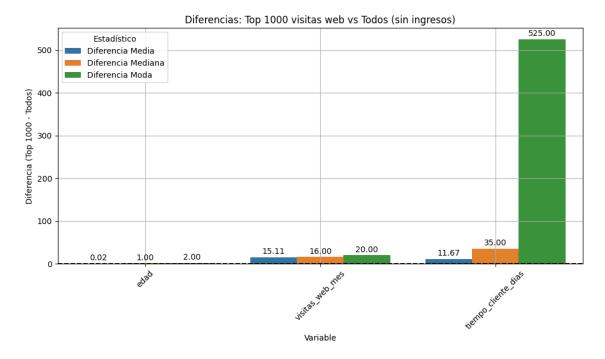


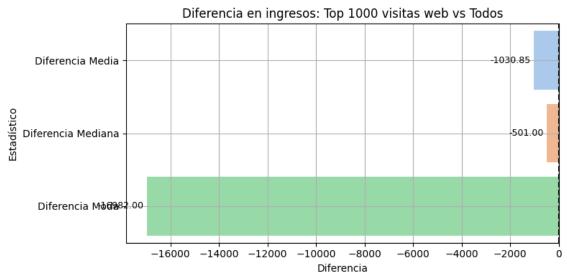


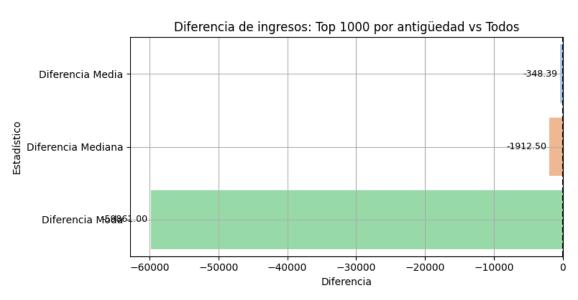




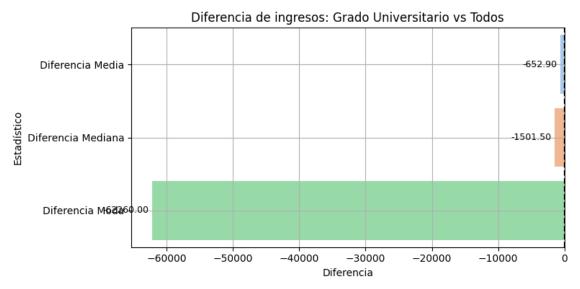


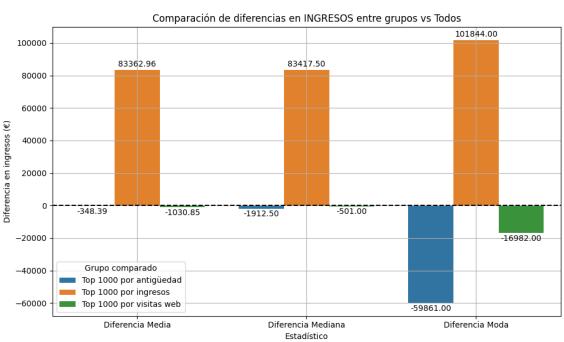












Df_Financiación

| | tiene_hipoteca | tiene_prestamo | incumplimiento_pagos | edad |
|--------------------------------------|----------------|----------------|----------------------|-----------|
| id | | | | |
| 089b39d8-e4d0-461b-87d4-814d71e0e079 | 0 | 0 | 0 | <na></na> |
| e9d37224-cb6f-4942-98d7-46672963d097 | 0 | 0 | <na></na> | 57 |
| 3f9f49b5-e410-4948-bf6e-f9244f04918b | 1 | 0 | 0 | 37 |
| 9991fafb-4447-451a-8be2-b0df6098d13e | 0 | 0 | 0 | 40 |
| eca60b76-70b6-4077-80ba-bc52e8ebb0eb | 0 | 1 | 0 | 56 |

Edad media con hipoteca: 39.0 años Edad media con préstamo: 38.8 años

Edad media con incumplimiento de pagos: 48.0 años

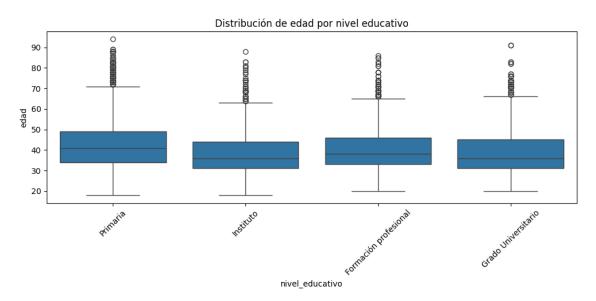
| | tiene_hipoteca | tiene_prestamo | incumplimiento_pagos |
|-------|----------------|----------------|----------------------|
| 0-18 | 8 | 3 | 0 |
| 19-24 | 405 | 112 | 0 |
| 25-34 | 5380 | 1621 | 0 |
| 35-44 | 5209 | 1487 | 0 |
| 45-54 | 3277 | 988 | 2 |
| 55-64 | 1301 | 368 | 0 |
| 65-74 | 143 | 36 | 0 |
| 75+ | 76 | 24 | 0 |
| TOTAL | 15799 | 4639 | 2 |

| | Condición | Objetivo | Probabilidad |
|--------------------------------|--------------------------|--------------------------|--------------|
| P(Préstamo si tiene hipoteca) | tiene_hipoteca = 1 | tiene_prestamo = 1 | 17.1% |
| P(Impagos si tiene hipoteca) | tiene_hipoteca = 1 | incumplimiento_pagos = 1 | 0.0% |
| P(Hipoteca si tiene préstamos) | tiene_prestamo = 1 | tiene_hipoteca = 1 | 58.3% |
| P(Impagos si tiene préstamos) | tiene_prestamo = 1 | incumplimiento_pagos = 1 | 0.0% |
| P(Hipoteca si tiene impagos) | incumplimiento_pagos = 1 | tiene_hipoteca = 1 | 50.0% |
| P(Préstamos si tiene impagos) | incumplimiento_pagos = 1 | tiene_prestamo = 1 | 0.0% |

Df_familia

| | edad | total_hijos | hijos_pequeños | hijos_adolescentes | nivel_educativo |
|--------------------------------------|-----------|-------------|----------------|--------------------|-----------------|
| id | | | | | |
| 089b39d8-e4d0-461b-87d4-814d71e0e079 | <na></na> | 1 | 1 | 0 | Primaria |
| e9d37224-cb6f-4942-98d7-46672963d097 | 57 | 2 | 1 | 1 | Instituto |
| 3f9f49b5-e410-4948-bf6e-f9244f04918b | 37 | 2 | 1 | 1 | Instituto |
| 9991fafb-4447-451a-8be2-b0df6098d13e | 40 | 3 | 1 | 2 | Primaria |
| eca60b76-70b6-4077-80ba-bc52e8ebb0eb | 56 | 3 | 1 | 2 | Instituto |

| | total_hijos | hijos_pequeños | hijos_adolescentes |
|-----------------------|-------------|----------------|--------------------|
| nivel_educativo | | | |
| Formación profesional | 2.02 | 1.02 | 1.0 |
| Grado Universitario | 2.01 | 1.01 | 1.0 |
| Instituto | 2.01 | 1.01 | 1.0 |
| Primaria | 2.0 | 1.0 | 1.0 |



| | grupo_edad | proporcion_con_hijos |
|---|------------|----------------------|
| 0 | 0-24 | 91.0 |
| 1 | 25-34 | 89.0 |
| 2 | 35-44 | 88.0 |
| 3 | 45-54 | 90.0 |
| 4 | 55-64 | 87.0 |
| 5 | 65+ | <na></na> |

| | proporcion_con_hijos proporcion_con_hijos_pequeños proporcion_con_hijos_a | | proporcion_con_hijos_adolescentes |
|------------|---|------|-----------------------------------|
| grupo_edad | | | |
| 18-34 | 89.2 | 67.3 | 67.5 |
| 35-54 | 88.9 | 66.8 | 66.9 |
| 55+ | 87.2 | 67.4 | 64.0 |

Df_familia_financiación

| | Condición | Objetivo | Probabilidad |
|---|-----------------------------------|-----------------------------------|--------------|
| 0 | tiene_hijos = 1 | nivel_educativo_universitario = 1 | 26.8% |
| 1 | tiene_hijos = 1 | tiene_hipoteca = 1 | 48.9% |
| 2 | tiene_hijos = 1 | tiene_prestamo = 1 | 15.6% |
| 3 | tiene_hijos = 1 | incumplimiento_pagos = 1 | 0.0% |
| 4 | nivel_educativo_universitario = 1 | tiene_hijos = 1 | 88.3% |
| 5 | tiene_hipoteca = 1 | tiene_hijos = 1 | 88.5% |
| 6 | tiene_prestamo = 1 | tiene_hijos = 1 | 89.2% |
| 7 | incumplimiento_pagos = 1 | tiene_hijos = 1 | nan% |

