

Variable : CreditScore

Statistiques globales :

count	10000.000000
mean	650.528800
std	96.653299
min	350.000000
25%	584.000000
50%	652.000000
75%	718.000000
max	850.000000

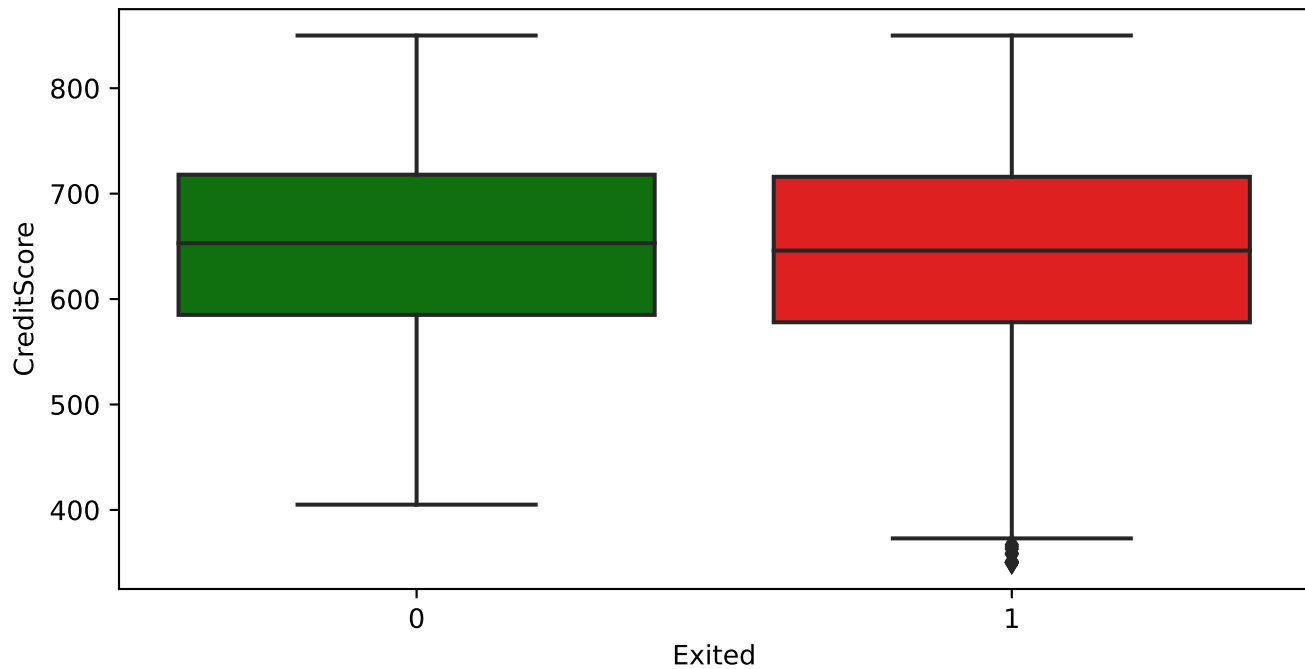
Name: CreditScore, dtype: float64

Statistiques par Exited :

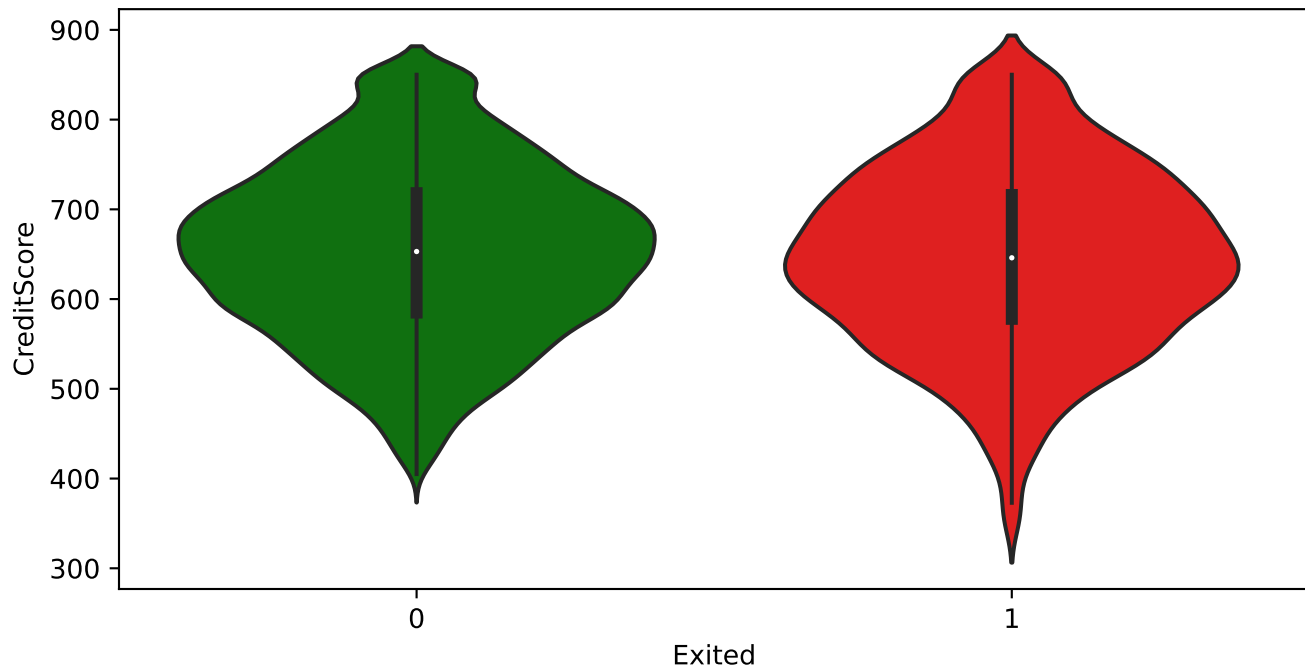
	count	mean	std	min	25%	50%	75%	max
Exited								
0	7962.0	651.837855	95.650047	405.0	585.0	653.0	718.0	850.0
1	2038.0	645.414622	100.337351	350.0	578.0	646.0	716.0	850.0

T-test : t=2.603, p=0.0093

Boxplot de CreditScore par Exited



Violin plot de CreditScore par Exited



Variable : Age

Statistiques globales :

count 10000.000000  
mean 38.921800  
std 10.487806  
min 18.000000  
25% 32.000000  
50% 37.000000  
75% 44.000000  
max 92.000000

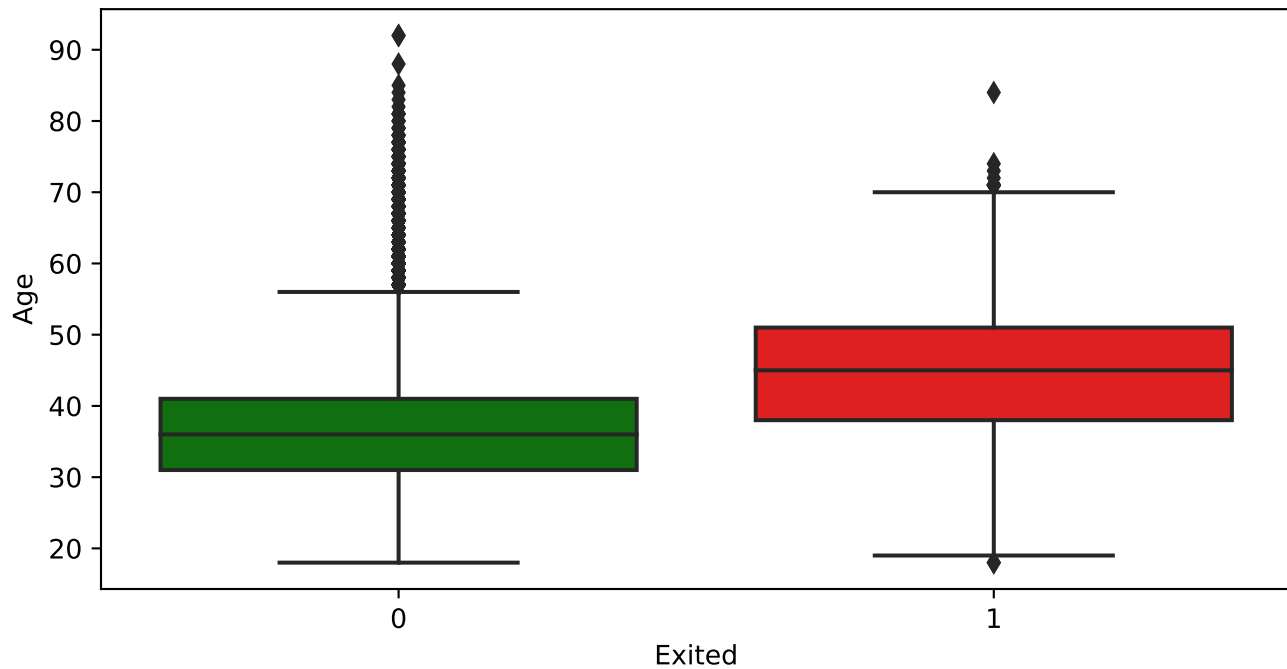
Name: Age, dtype: float64

Statistiques parExited :

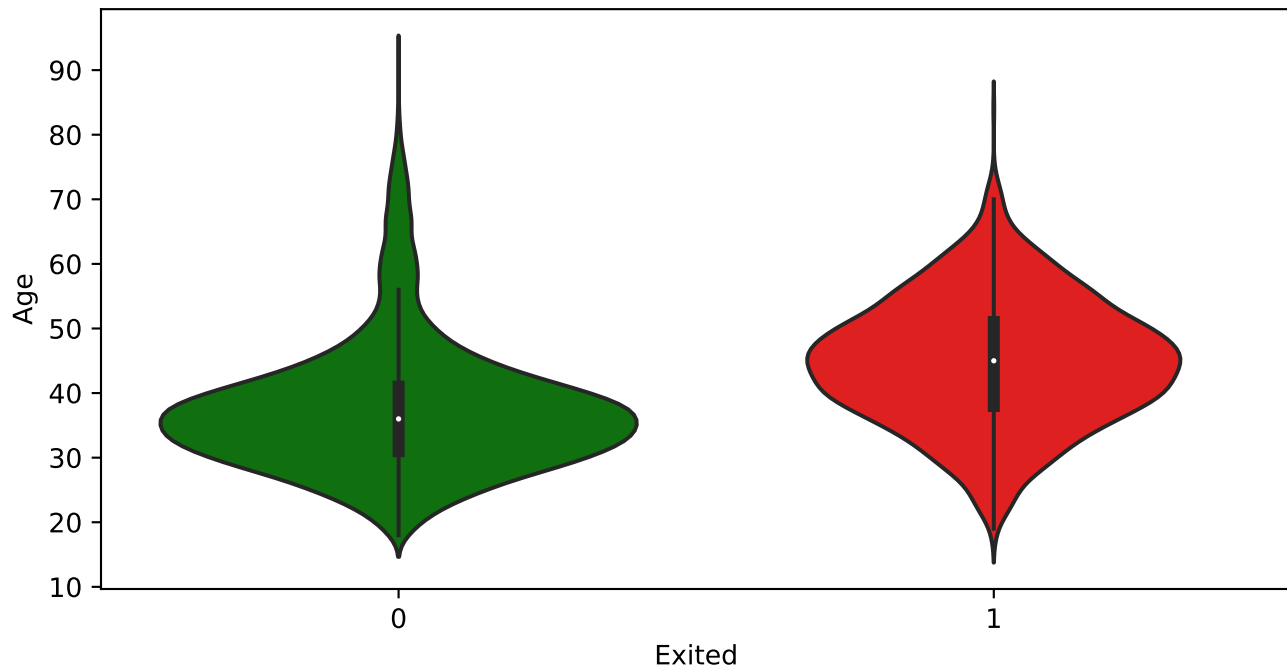
	count	mean	std	min	25%	50%	75%	max
Exited								
0	7962.0	37.408063	10.125957	18.0	31.0	36.0	41.0	92.0
1	2038.0	44.835623	9.759754	18.0	38.0	45.0	51.0	84.0

T-test : t=-30.420, p=0.0000

Boxplot de Age par Exited



Violin plot de Age par Exited



Variable : Tenure

Statistiques globales :

count	10000.000000
mean	5.012800
std	2.892174
min	0.000000
25%	3.000000
50%	5.000000
75%	7.000000
max	10.000000

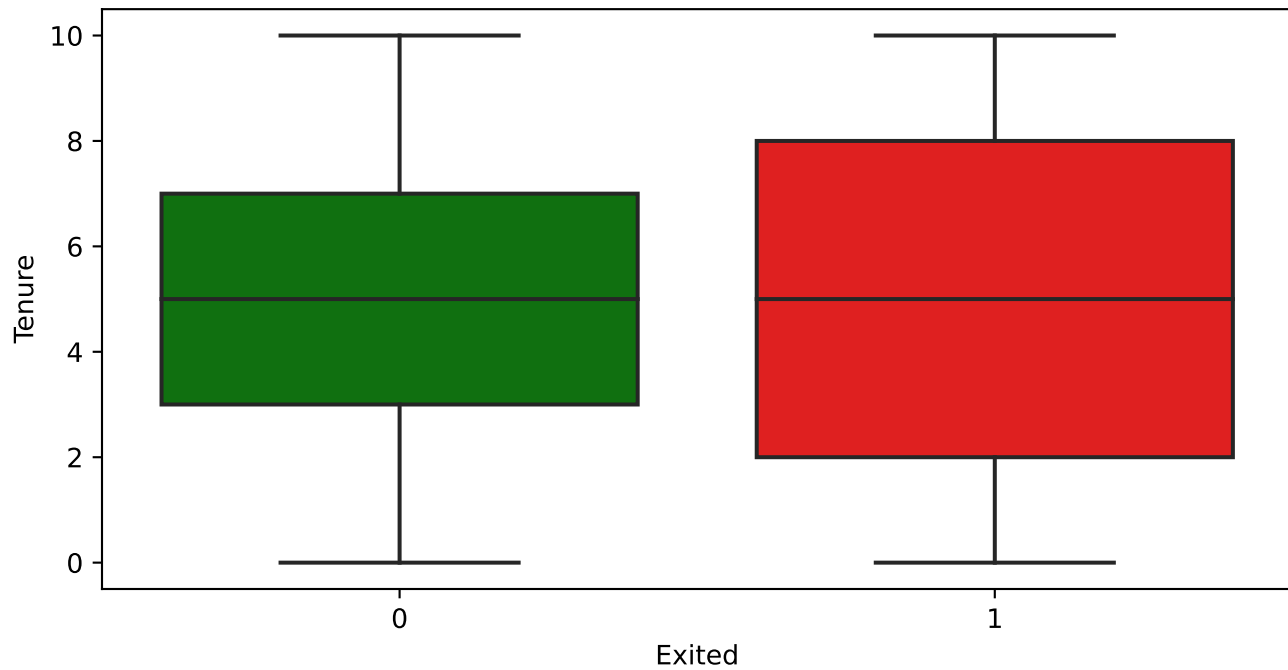
Name: Tenure, dtype: float64

Statistiques par Exited :

	count	mean	std	min	25%	50%	75%	max
Exited								
0	7962.0	5.032781	2.880496	0.0	3.0	5.0	7.0	10.0
1	2038.0	4.934740	2.936768	0.0	2.0	5.0	8.0	10.0

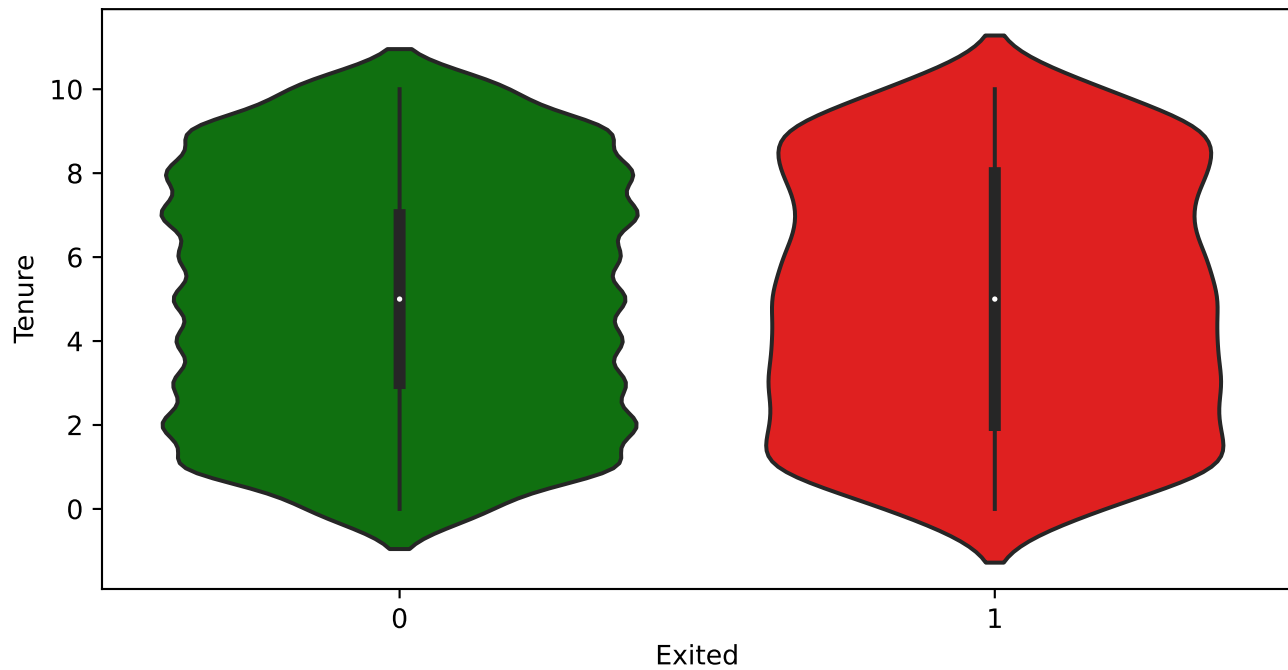
T-test : t=1.350, p=0.1771

Boxplot de Tenure par Exited





Violin plot de Tenure par Exited



Variable : Balance

Statistiques globales :

count 10000.000000  
mean 76485.889288  
std 62397.405202  
min 0.000000  
25% 0.000000  
50% 97198.540000  
75% 127644.240000  
max 250898.090000

Name: Balance, dtype: float64

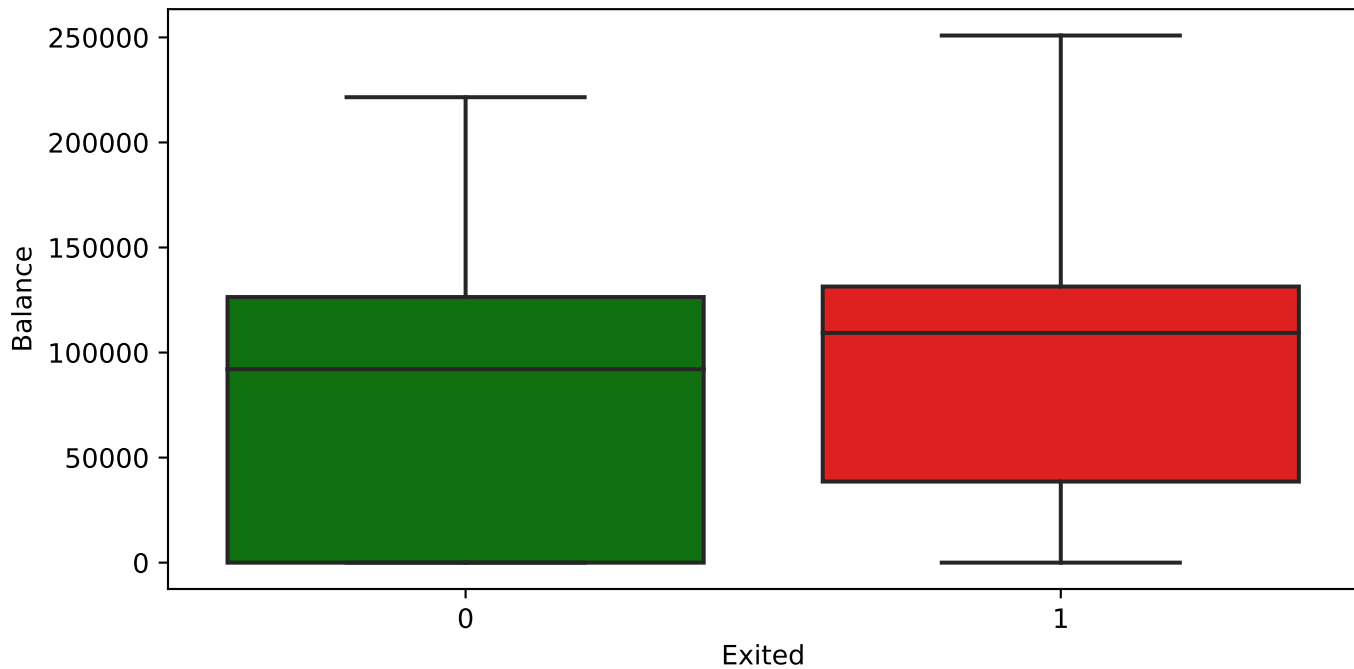
Statistiques parExited :

	count	mean	std	min	25%	50% \
Exited						
0	7962.0	72742.750663	62851.577108	0.0	0.0000	92063.06
1	2038.0	91109.476006	58346.483197	0.0	38591.2225	109344.23

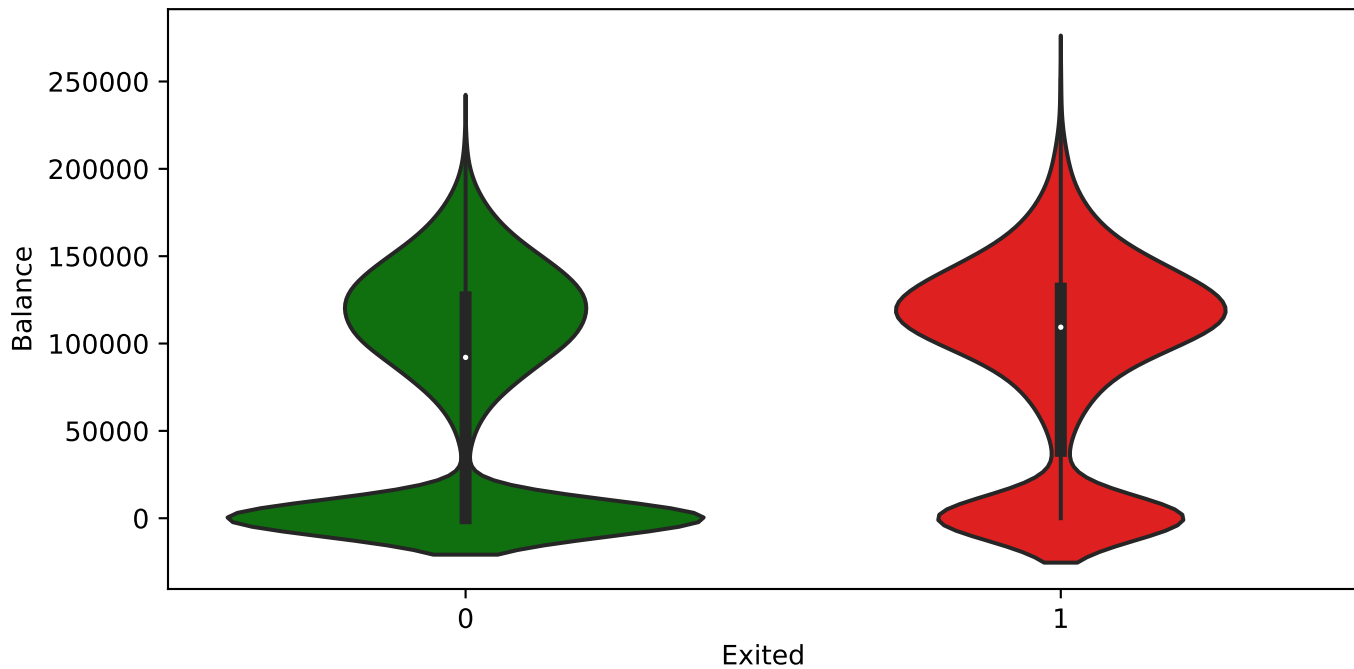
	75%	max
Exited		
0	126419.3300	221532.80
1	131423.6375	250898.09

T-test : t=-12.478, p=0.0000

Boxplot de Balance par Exited



Violin plot de Balance par Exited



Variable : EstimatedSalary

Statistiques globales :

count 10000.000000  
mean 100090.239881  
std 57510.492818  
min 11.580000  
25% 51002.110000  
50% 100193.915000  
75% 149388.247500  
max 199992.480000

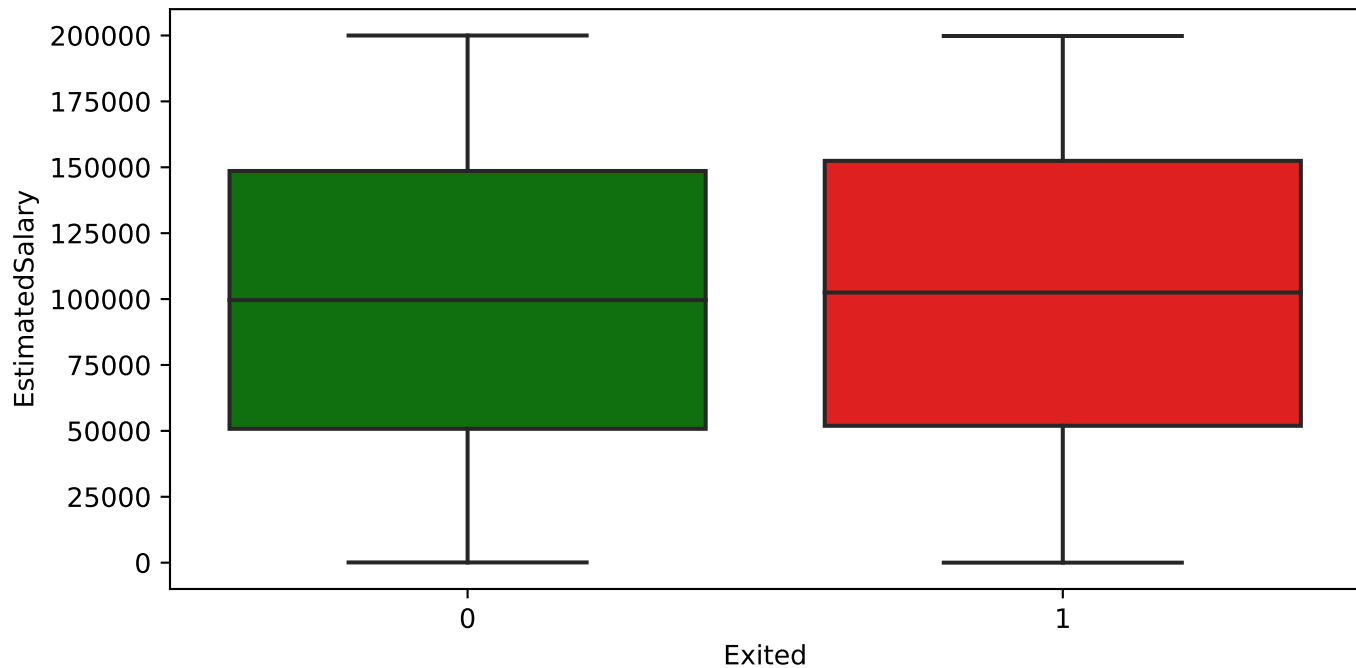
Name: EstimatedSalary, dtype: float64

Statistiques par Exited :

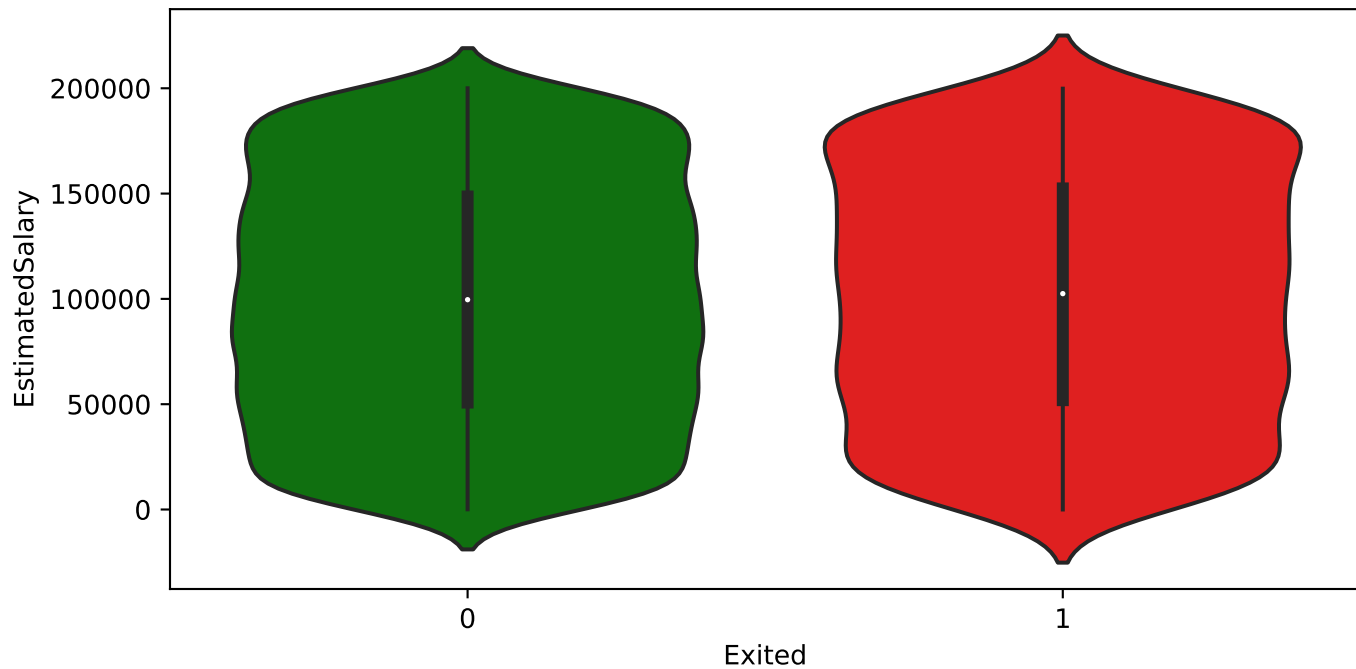
	count	mean	std	min	25%	50%	\
Exited							
0	7962.0	99726.853141	57399.956717	90.07	50783.295	99620.355	
1	2038.0	101509.908783	57932.623392	11.58	51924.020	102489.335	
		75%	max				
Exited							
0	148602.4450	199992.48					
1	152443.8575	199808.10					

T-test : t=-1.242, p=0.2143

Boxplot de EstimatedSalary par Exited



Violin plot de EstimatedSalary par Exited



Variable : Point Earned

Statistiques globales :

```
count    10000.000000
mean      606.515100
std       225.924839
min       119.000000
25%       410.000000
50%       605.000000
75%       801.000000
max       1000.000000
```

Name: Point Earned, dtype: float64

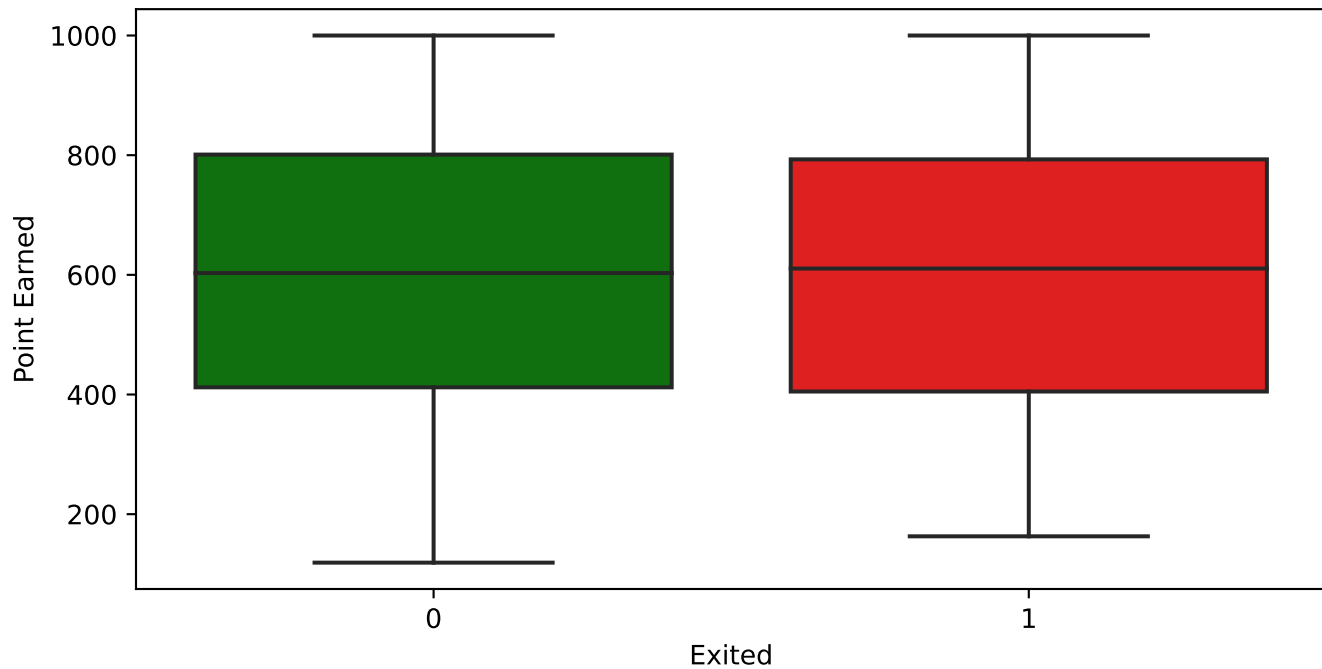
Statistiques par Exited :

	count	mean	std	min	25%	50%	75%	max
Exited								
0	7962.0	607.044084	226.091682	119.0	412.0	603.0	801.0	1000.0
1	2038.0	604.448479	225.315301	163.0	405.0	610.5	793.0	1000.0

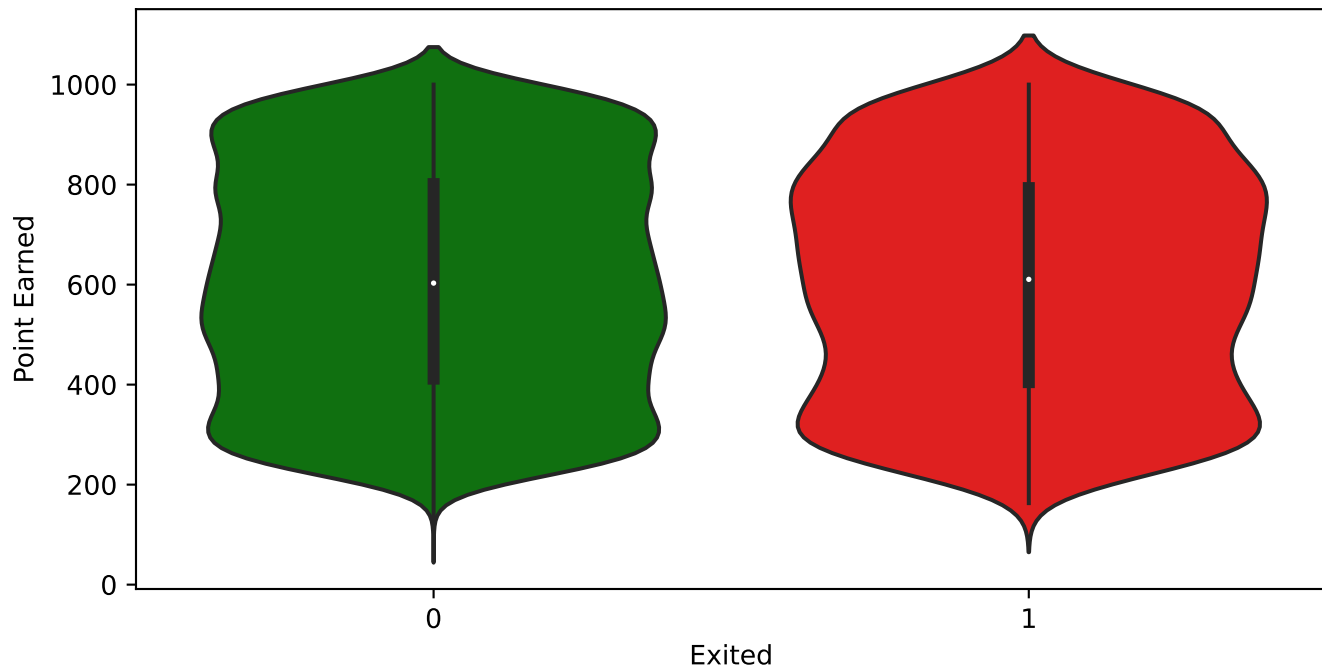
T-test : t=0.464, p=0.6429



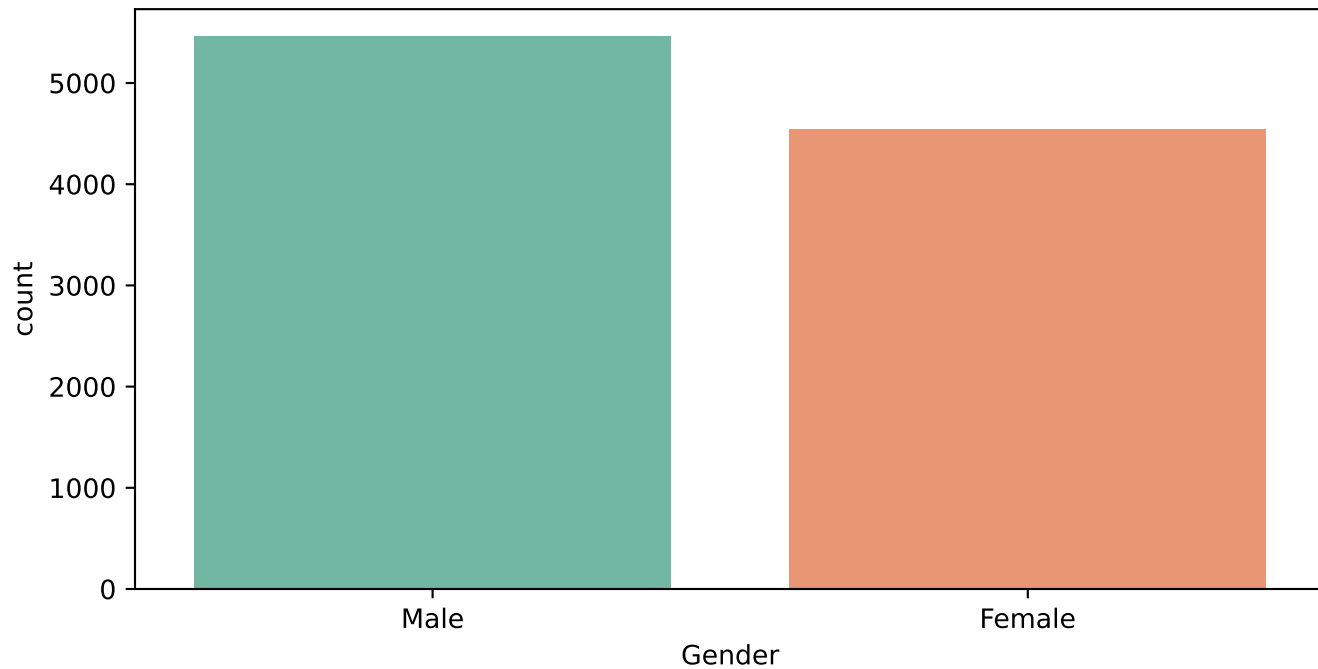
Boxplot de Point Earned par Exited



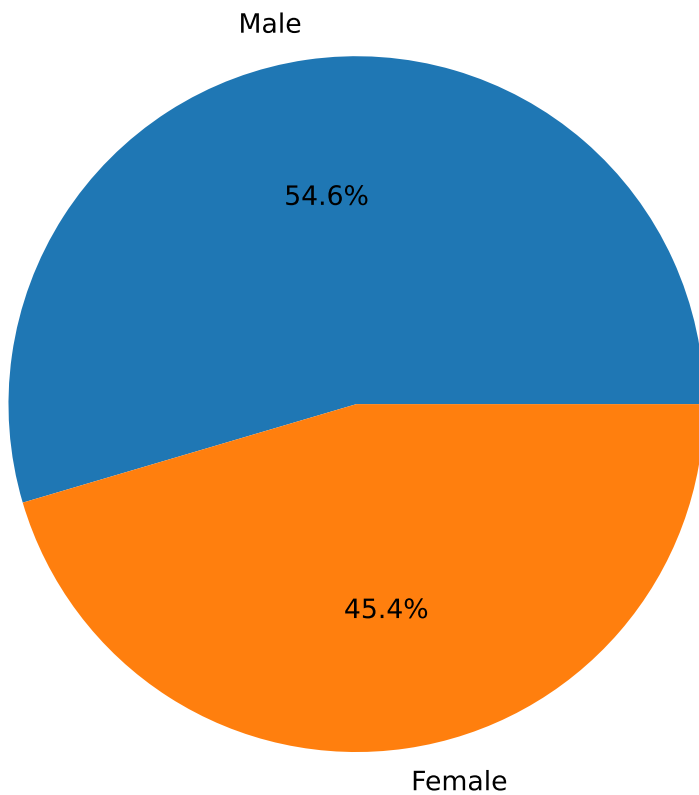
Violin plot de Point Earned par Exited



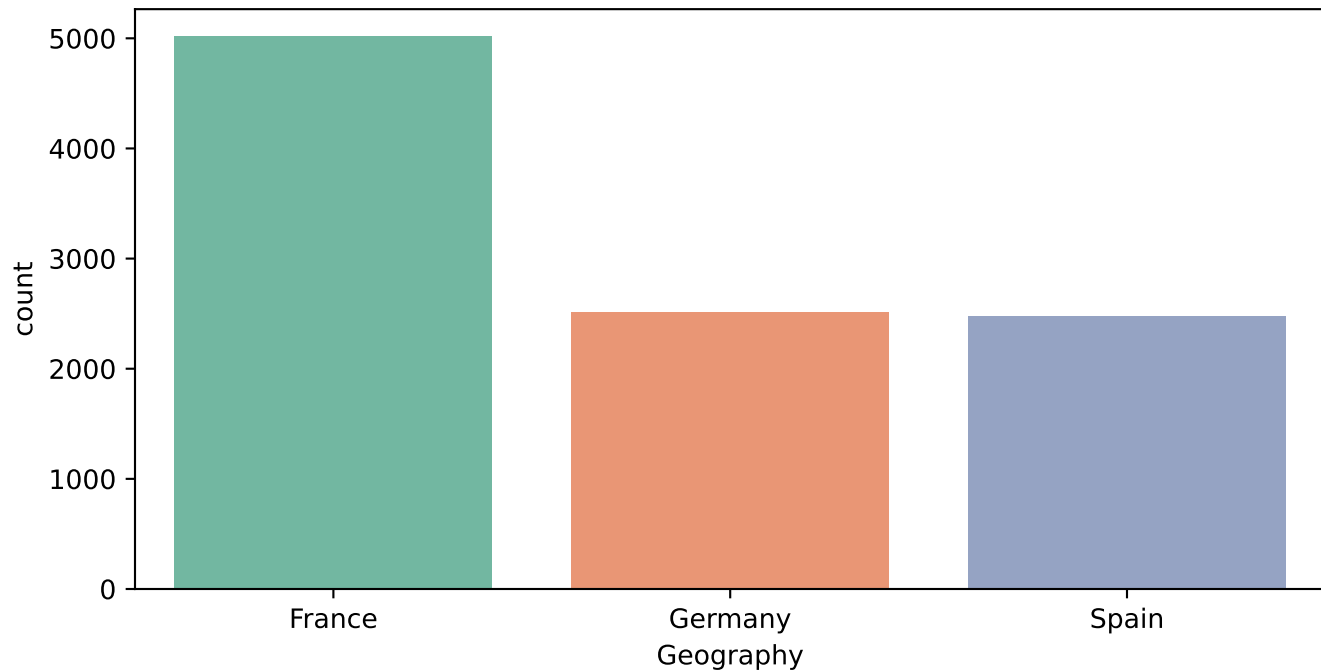
Répartition de Gender



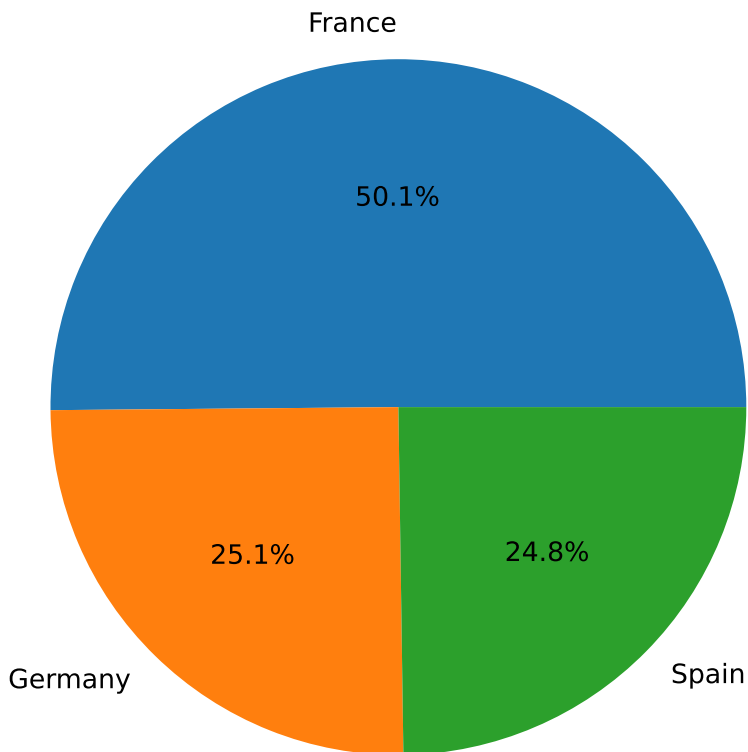
## Diagramme circulaire de Gender



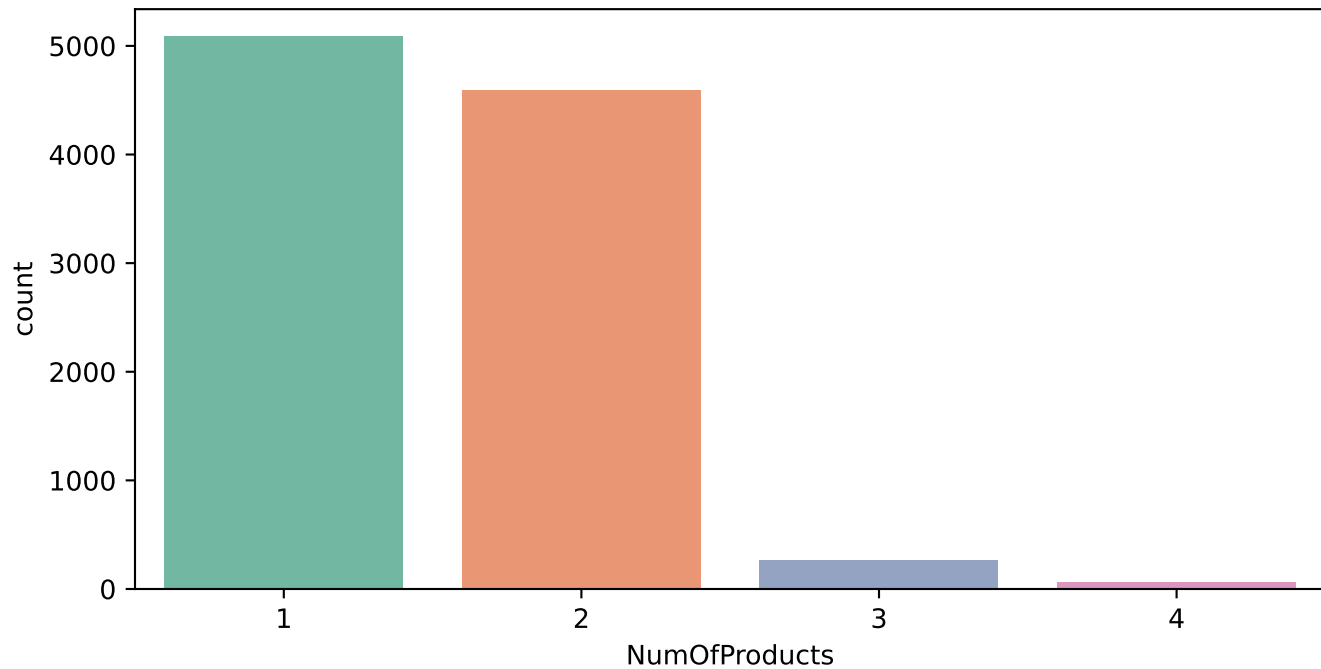
Répartition de Geography



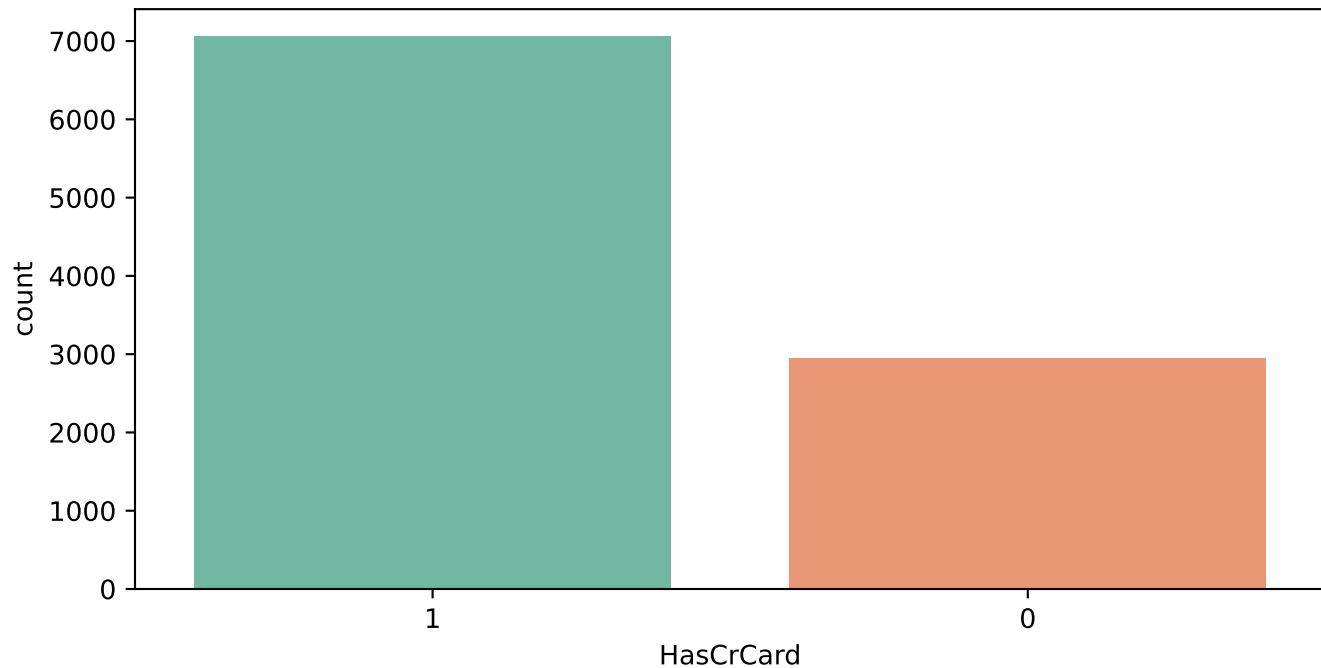
# Diagramme circulaire de Geography



Répartition de NumOfProducts

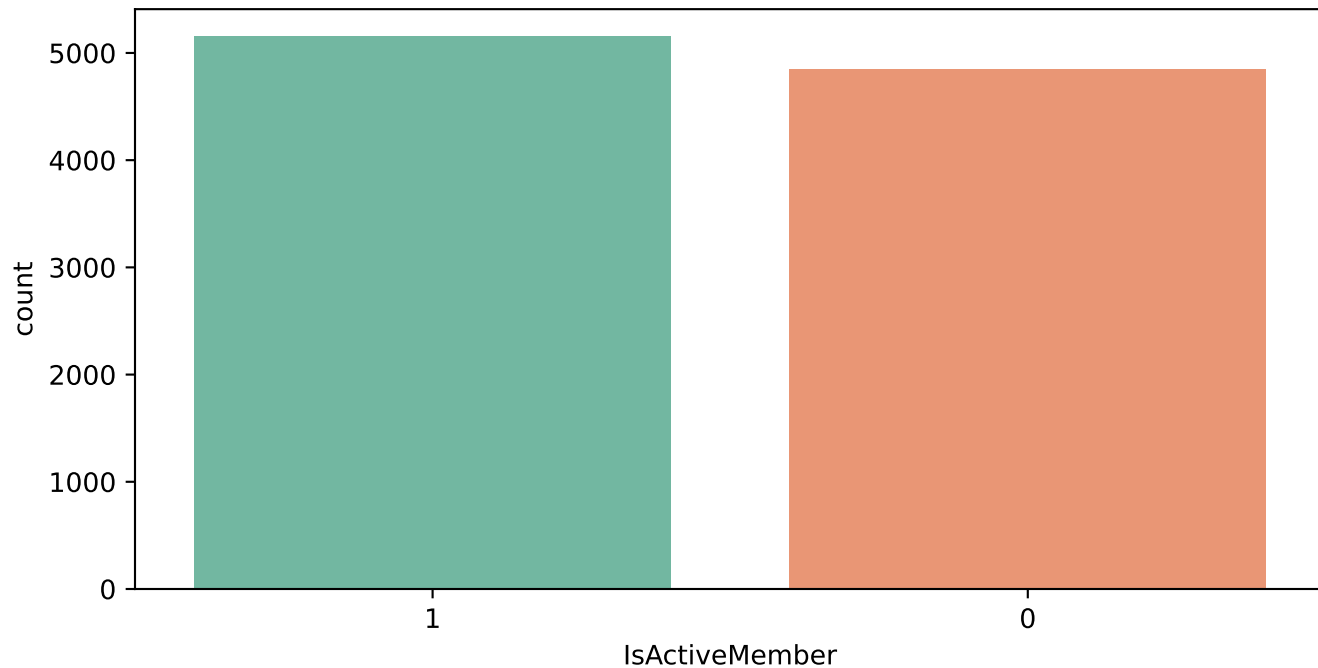


Répartition de HasCrCard

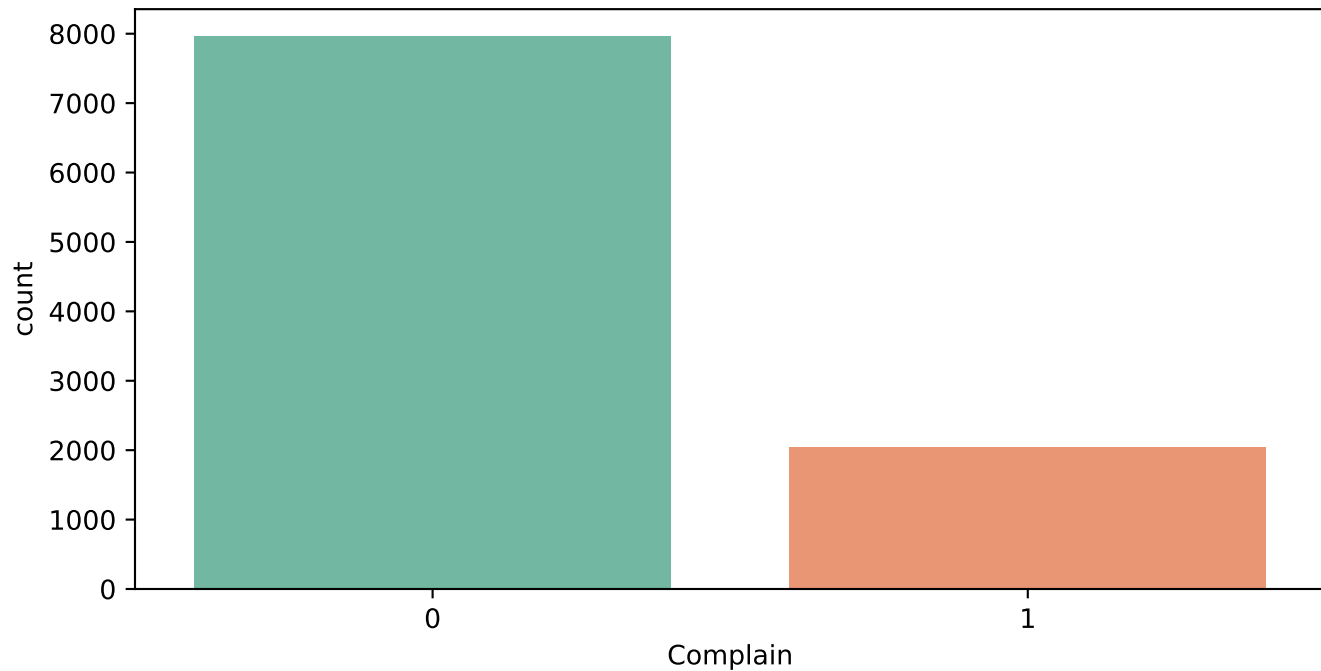




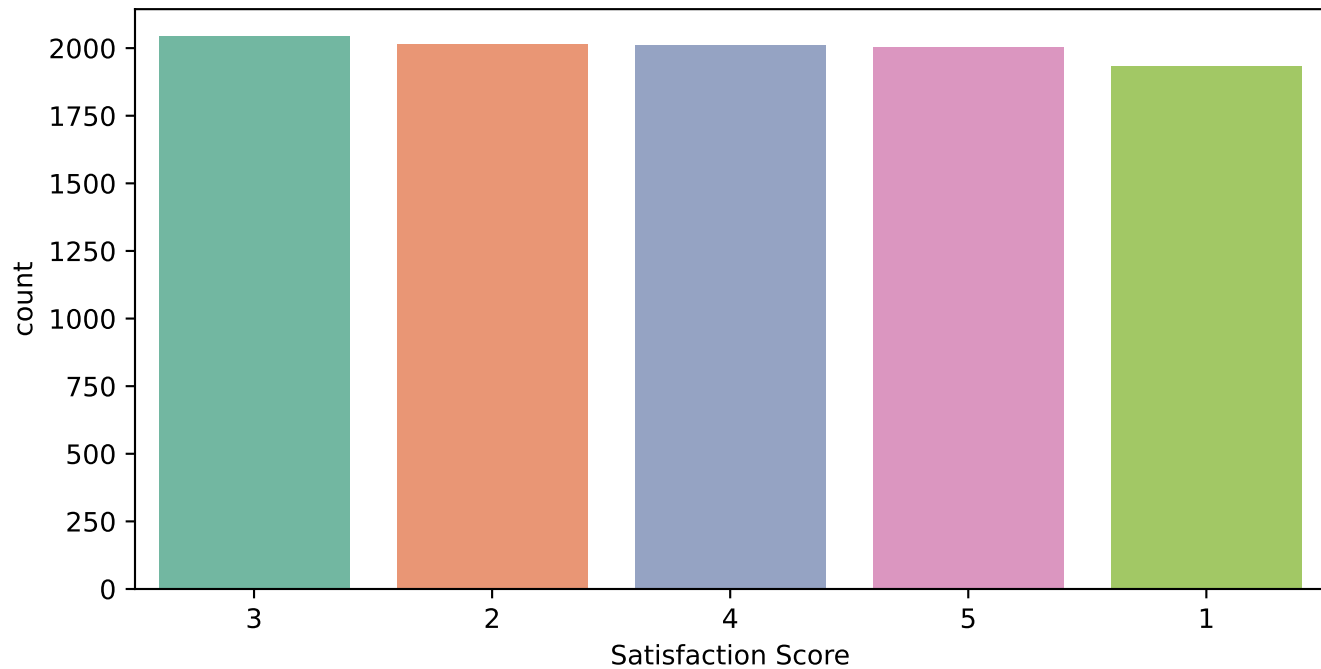
Répartition de IsActiveMember



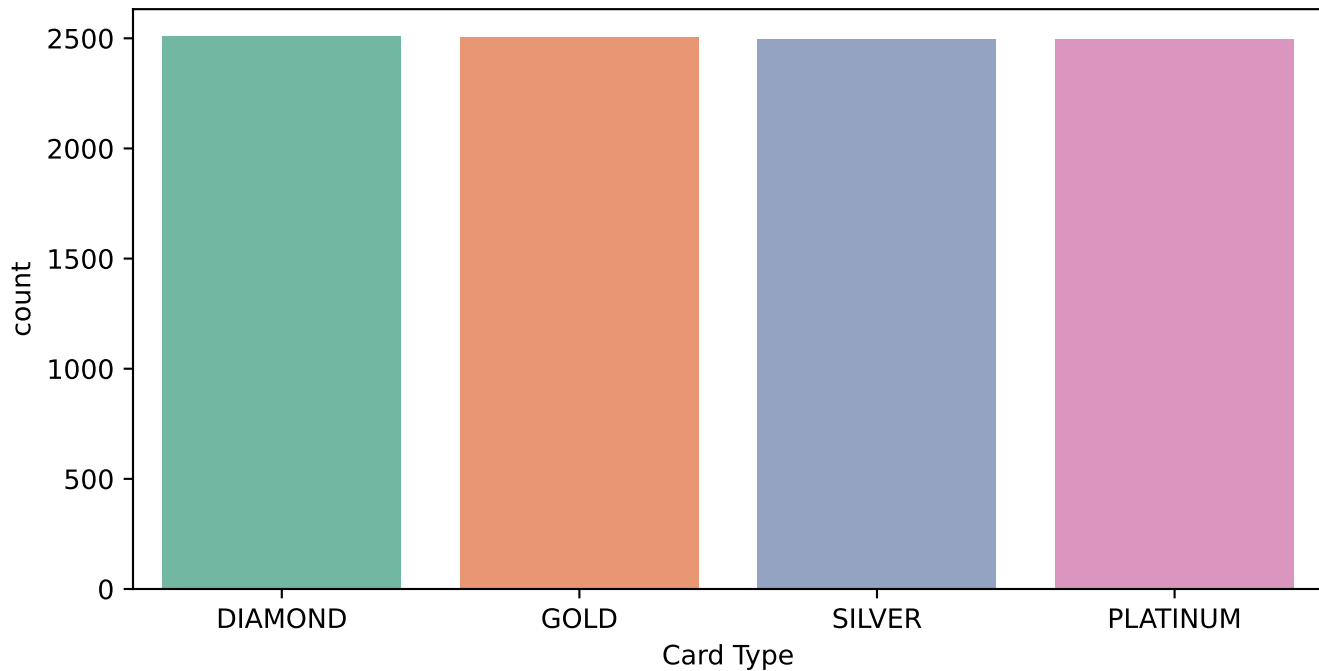
Répartition de Complain



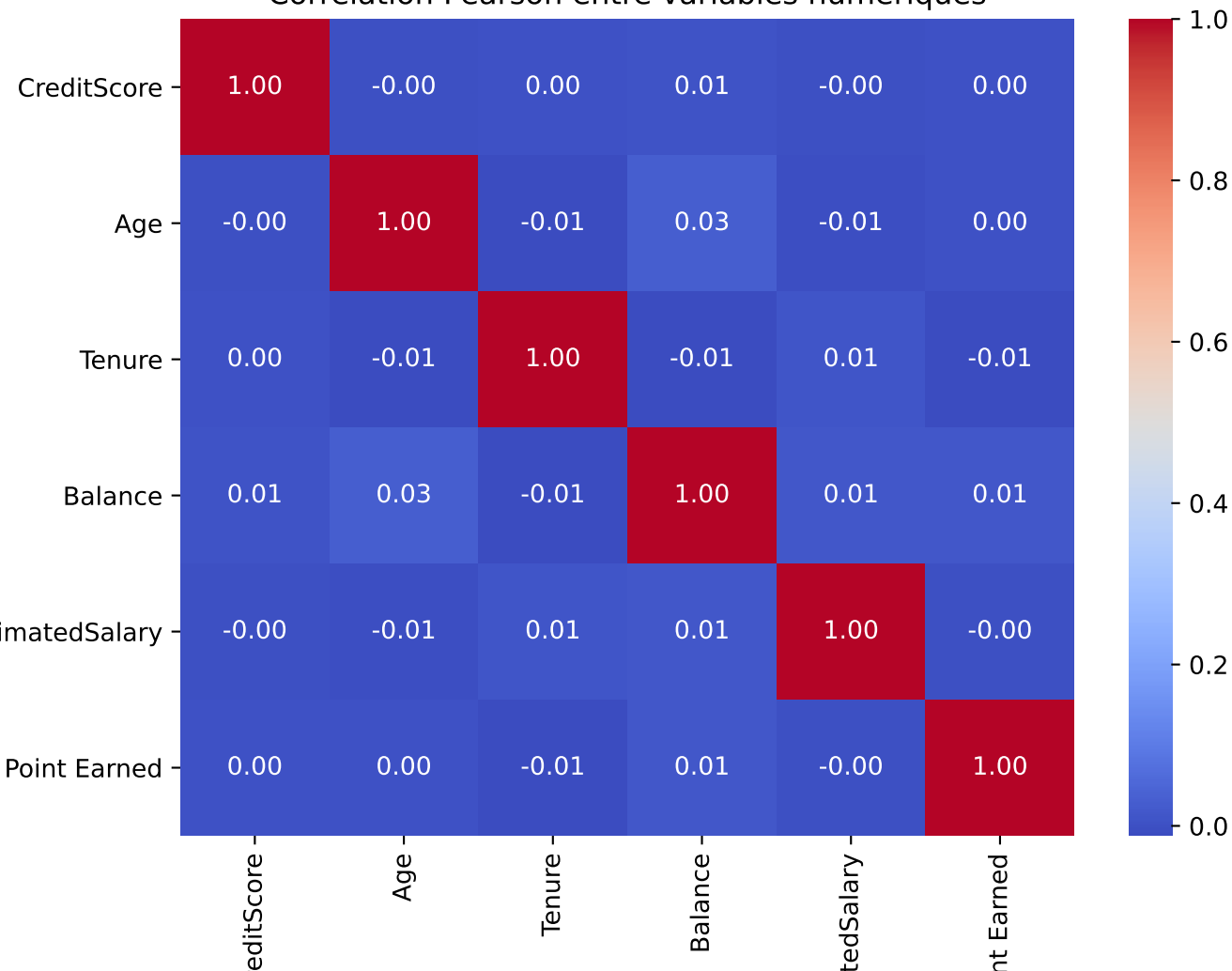
Répartition de Satisfaction Score



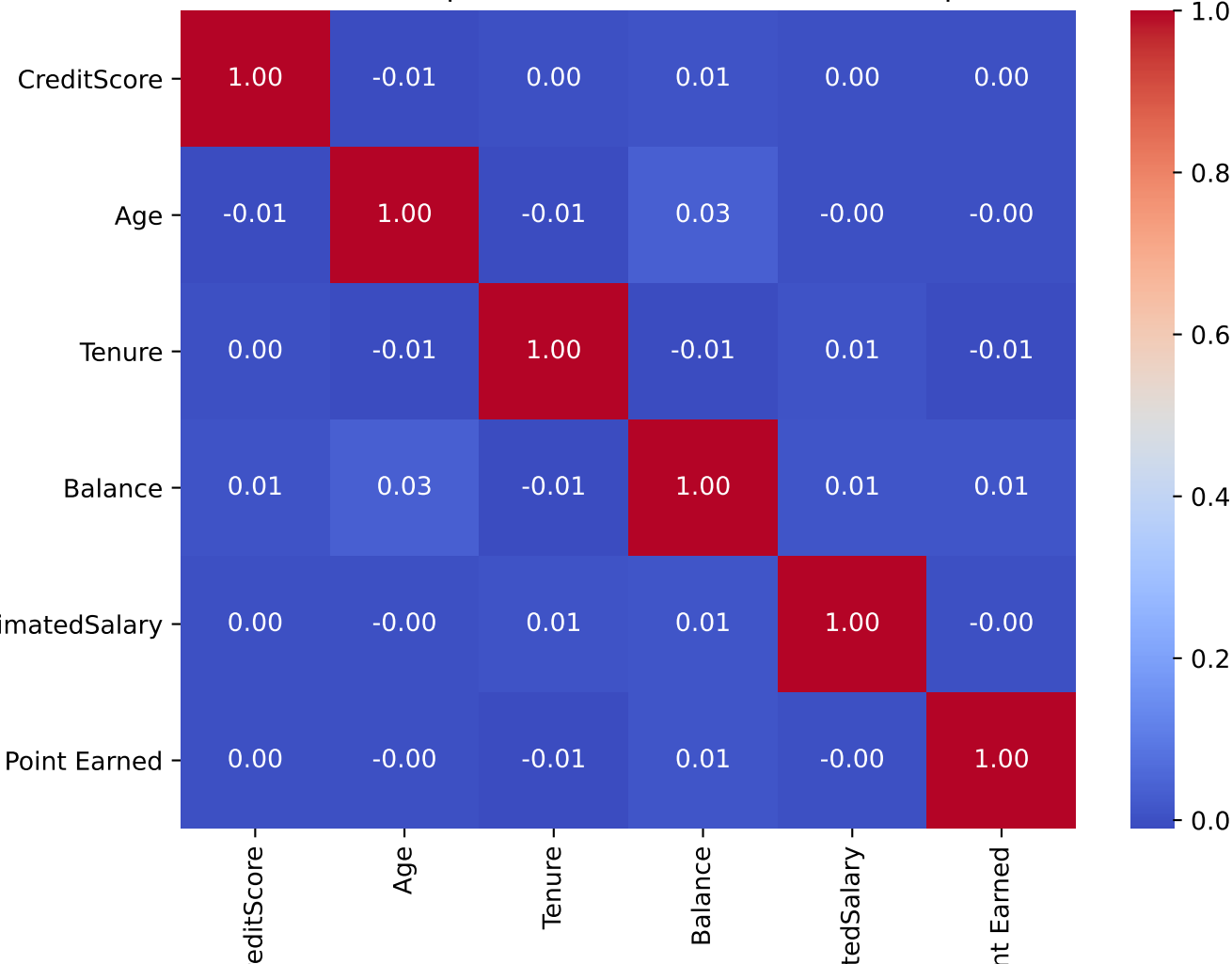
Répartition de Card Type



Corrélation Pearson entre variables numériques



Corrélation Spearman entre variables numériques



Variable : Gender vs Exited

Table de contingence :

Exited	0	1
Gender		
Female	3404	1139
Male	4558	899

Chi2=112.397, p-value=0.0000

Variable : Geography vs Exited

Table de contingence :

Exited	0	1
Geography		
France	4203	811
Germany	1695	814
Spain	2064	413

Chi2=300.626, p-value=0.0000



Variable : NumOfProducts vs Exited

Table de contingence :

Exited	0	1
NumOfProducts		
1	3675	1409
2	4241	349
3	46	220
4	0	60

Chi2=1501.505, p-value=0.0000

Variable : HasCrCard vs Exited

Table de contingence :

Exited	0	1
--------	---	---

HasCrCard		
-----------	--	--

0	2332	613
---	------	-----

1	5630	1425
---	------	------

Chi2=0.449, p-value=0.5026

Variable : IsActiveMember vs Exited

Table de contingence :

Exited	0	1
IsActiveMember		
0	3546	1303
1	4416	735

Chi2=243.695, p-value=0.0000

Variable : Complain vs Exited

Table de contingence :

Exited	0	1
Complain		
0	7952	4
1	10	2034

Chi2=9907.907, p-value=0.0000

Variable : Satisfaction Score vs Exited

Table de contingence :

Exited	0	1
Satisfaction Score		
1	1545	387
2	1575	439
3	1641	401
4	1594	414
5	1607	397

Chi2=3.803, p-value=0.4334

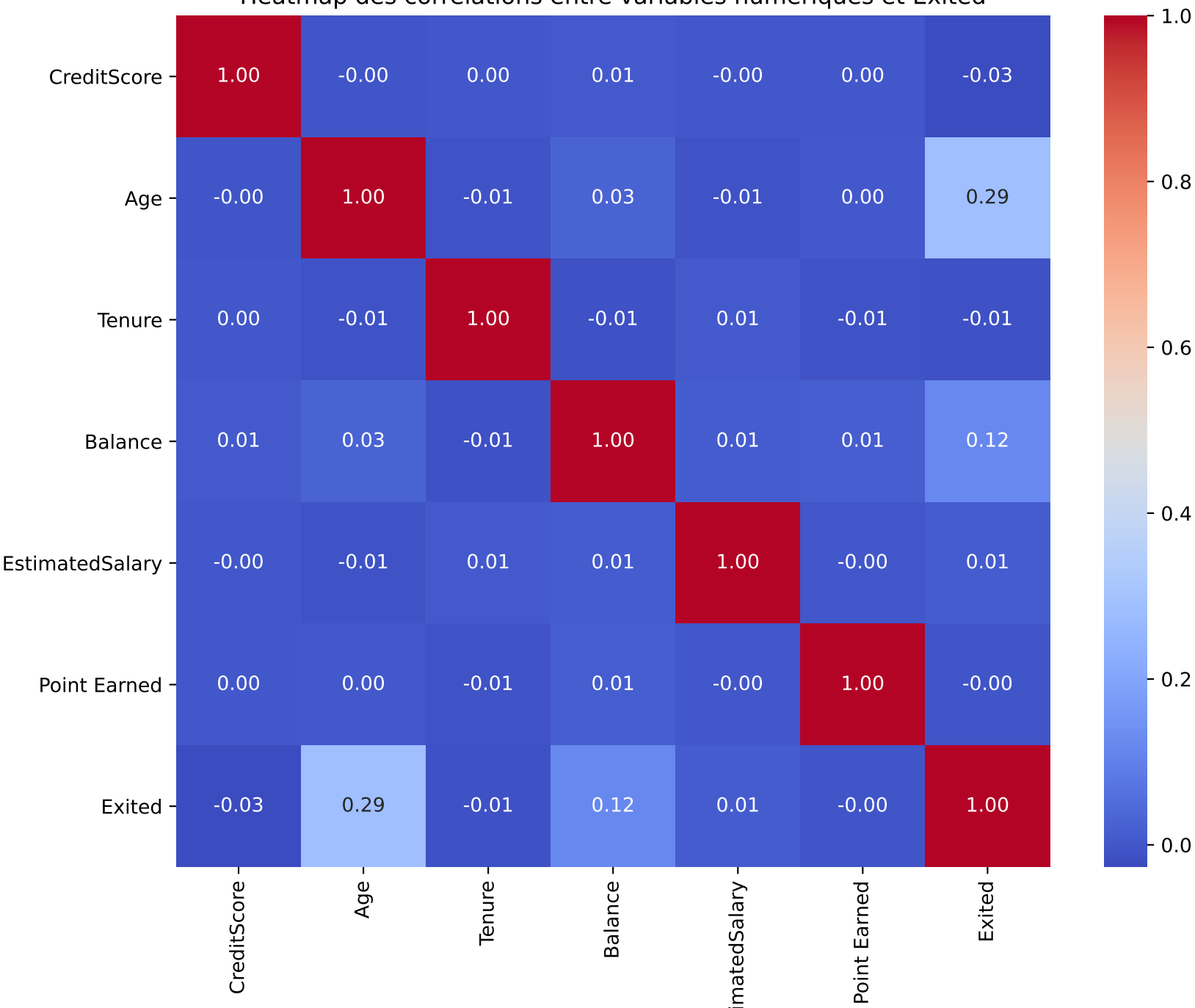
Variable : Card Type vs Exited

Table de contingence :

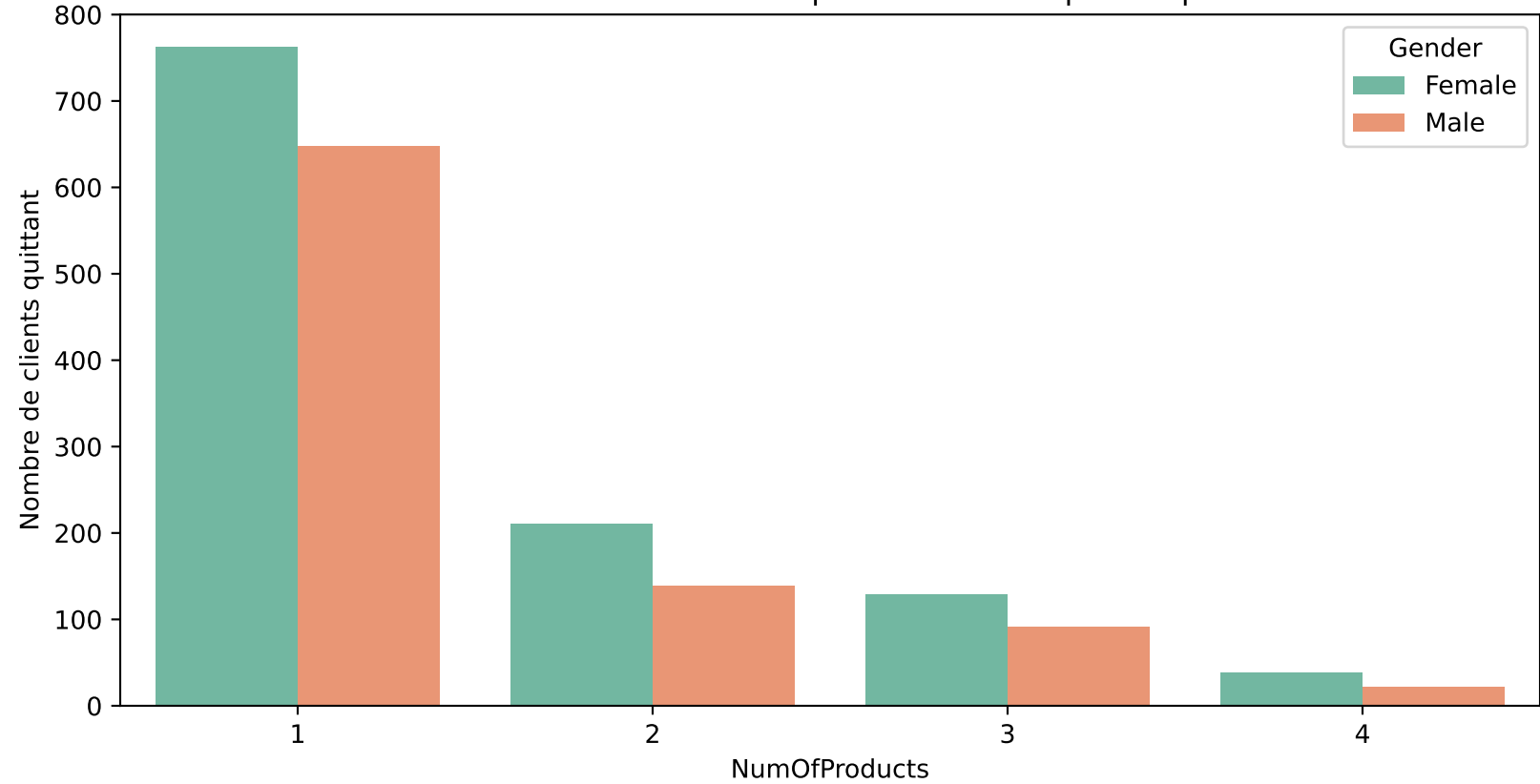
Exited	0	1
Card Type		
DIAMOND	1961	546
GOLD	2020	482
PLATINUM	1987	508
SILVER	1994	502

Chi2=5.053, p-value=0.1679

Heatmap des corrélations entre variables numériques et Exited

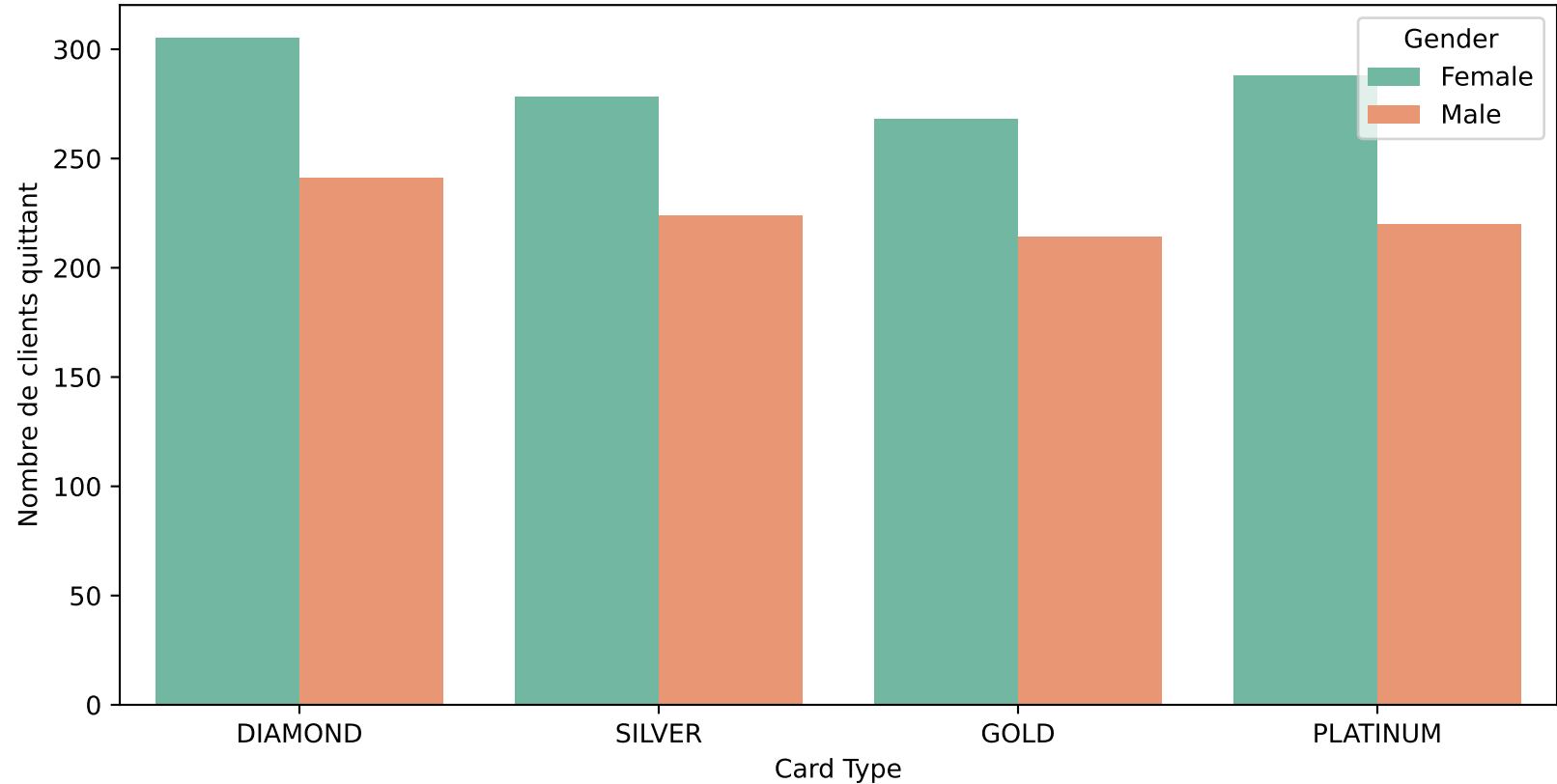


Gender et NumOfProducts pour les clients qui ont quitté

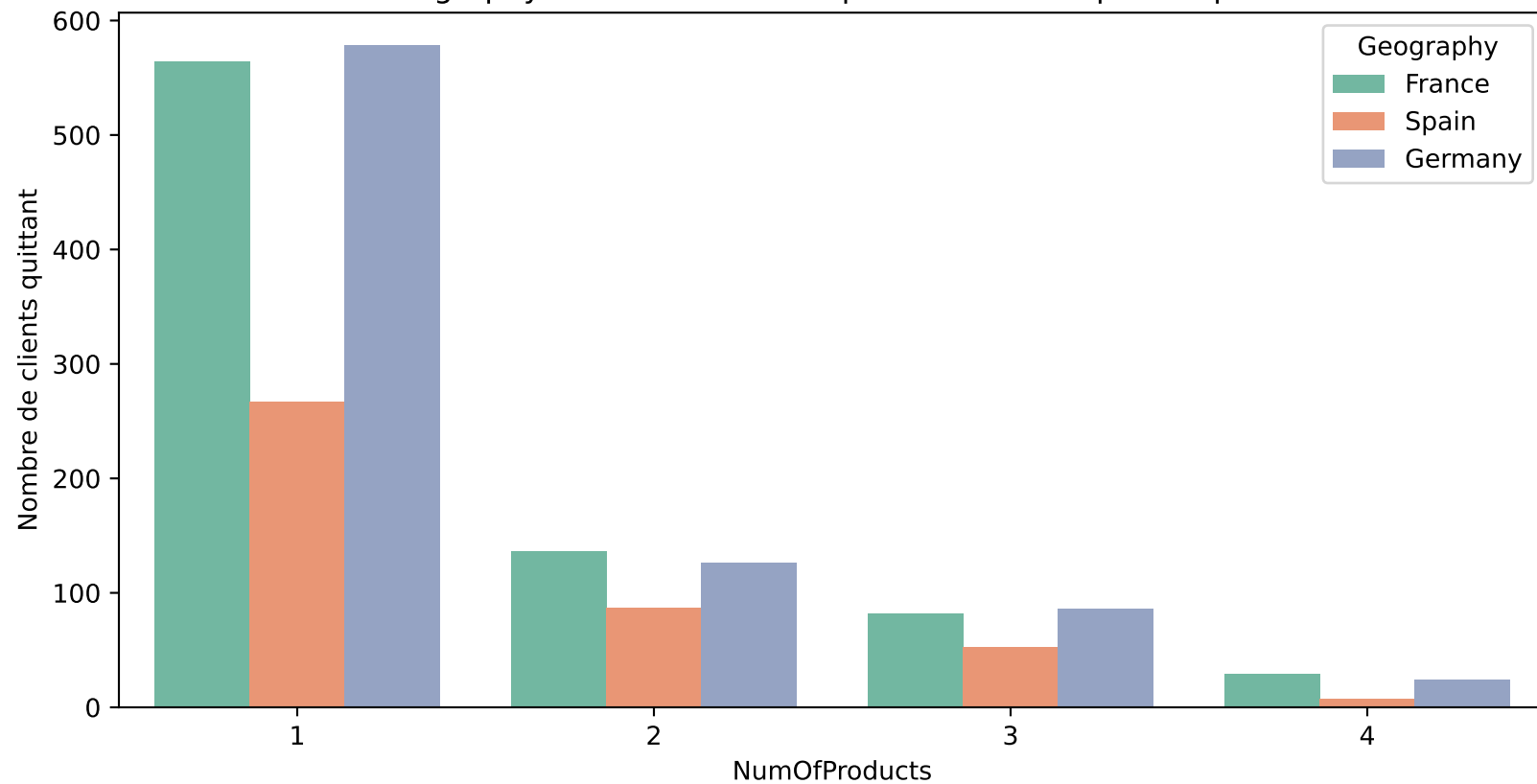




Gender et Card Type pour les clients qui ont quitté



Geography et NumOfProducts pour les clients qui ont quitté



Geography et Card Type pour les clients qui ont quitté

