

# Churn Data Quality Report

## MISSING\_VALUES:

RowNumber: 0  
CustomerId: 0  
Surname: 0  
CreditScore: 0  
Geography: 0  
Gender: 0  
Age: 0  
Tenure: 0  
Balance: 0  
NumOfProducts: 0  
HasCrCard: 0  
IsActiveMember: 0  
EstimatedSalary: 0  
Exited: 0

## DUPLICATE\_ROWS:

0

## DATA\_TYPES:

RowNumber: int64  
CustomerId: int64  
Surname: object  
CreditScore: int64  
Geography: object  
Gender: object  
Age: int64  
Tenure: int64  
Balance: float64  
NumOfProducts: int64  
HasCrCard: int64  
IsActiveMember: int64  
EstimatedSalary: float64  
Exited: int64

## NUMERIC\_SUMMARY:

RowNumber: {'count': 10000.0, 'mean': 5000.5, 'std': 2886.8956799071675, 'min': 1.0, '25%': 2500.75, '50%': 5000.5, '75%': 7500.75, 'max': 10000.0}  
CustomerId: {'count': 10000.0, 'mean': 15690940.5694, 'std': 71936.18612274883, 'min': 15565701.0, '25%': 15628528.25, '50%': 15690940.5694, '75%': 15715281.0, 'max': 15896458.0}  
CreditScore: {'count': 10000.0, 'mean': 650.5288, 'std': 96.65329873613061, 'min': 350.0, '25%': 584.0, '50%': 652.0, '75%': 718.0, 'max': 850.0}  
Age: {'count': 10000.0, 'mean': 38.9218, 'std': 10.487806451704591, 'min': 18.0, '25%': 32.0, '50%': 37.0, '75%': 44.0, 'max': 92.0}  
Tenure: {'count': 10000.0, 'mean': 5.0128, 'std': 2.892174377049708, 'min': 0.0, '25%': 3.0, '50%': 5.0, '75%': 7.0, 'max': 10.0}  
Balance: {'count': 10000.0, 'mean': 76485.889288, 'std': 62397.40520238623, 'min': 0.0, '25%': 0.0, '50%': 97198.54000000001, '75%': 156344.2, 'max': 196600.0}  
NumOfProducts: {'count': 10000.0, 'mean': 1.5302, 'std': 0.5816543579989936, 'min': 1.0, '25%': 1.0, '50%': 1.0, '75%': 2.0, 'max': 3.0}  
HasCrCard: {'count': 10000.0, 'mean': 0.7055, 'std': 0.45584046447514237, 'min': 0.0, '25%': 0.0, '50%': 1.0, '75%': 1.0, 'max': 1.0}  
IsActiveMember: {'count': 10000.0, 'mean': 0.5151, 'std': 0.4997969284589202, 'min': 0.0, '25%': 0.0, '50%': 1.0, '75%': 1.0, 'max': 1.0}  
EstimatedSalary: {'count': 10000.0, 'mean': 100090.239881, 'std': 57510.49281769822, 'min': 11.58, '25%': 51002.11, '50%': 100000.0, '75%': 150000.0, 'max': 196000.0}  
Exited: {'count': 10000.0, 'mean': 0.2037, 'std': 0.40276858399484955, 'min': 0.0, '25%': 0.0, '50%': 0.0, '75%': 0.0, 'max': 1.0}