## The CONTENTS Procedure

| | | | |
|---|---|---|---|
| **Data Set Name** | WORK.CREDITCARD | **Observations** | 284807 |
| **Member Type** | DATA | **Variables** | 31 |
| **Engine** | V9 | **Indexes** | 0 |
| **Created** | 29/07/2022 08:32:08 | **Observation Length** | 248 |
| **Last Modified** | 29/07/2022 08:32:08 | **Deleted Observations** | 0 |
| **Protection** | | **Compressed** | NO |
| **Data Set Type** | | **Sorted** | NO |
| **Label** | | | |
| **Data Representation** | SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64 | | |
| **Encoding** | utf-8  Unicode (UTF-8) | | |

| Engine/Host Dependent Information | |
|---|---|
| **Data Set Page Size** | 131072 |
| **Number of Data Set Pages** | 540 |
| **First Data Page** | 1 |
| **Max Obs per Page** | 528 |
| **Obs in First Data Page** | 505 |
| **Number of Data Set Repairs** | 0 |
| **Filename** | /saswork/SAS_workC88B00002321_odaws01-usw2-2.oda.sas.com/SAS_work5C9200002321_odaws01-usw2-2.oda.sas.com/creditcard.sas7bdat |
| **Release Created** | 9.0401M6 |
| **Host Created** | Linux |
| **Inode Number** | 1409286218 |
| **Access Permission** | rw-r--r-- |
| **Owner Name** | u61927030 |
| **File Size** | 68MB |
| **File Size (bytes)** | 70909952 |

| Alphabetic List of Variables and Attributes | | | | | |
|---|---|---|---|---|---|
| **#** | **Variable** | **Type** | **Len** | **Format** | **Informat** |
| 30 | Amount | Num | 8 | BEST12. | BEST32. |
| 31 | Class | Char | 3 | $3. | $3. |
| 1 | Time | Num | 8 | BEST12. | BEST32. |
| 2 | V1 | Num | 8 | BEST12. | BEST32. |
| 3 | V2 | Num | 8 | BEST12. | BEST32. |
| 4 | V3 | Num | 8 | BEST12. | BEST32. |
| 5 | V4 | Num | 8 | BEST12. | BEST32. |
| 6 | V5 | Num | 8 | BEST12. | BEST32. |
| 7 | V6 | Num | 8 | BEST12. | BEST32. |

## The CONTENTS Procedure

| Alphabetic List of Variables and Attributes | | | | | |
| --- | --- | --- | --- | --- | --- |
| # | Variable | Type | Len | Format | Informat |
| 8 | V7 | Num | 8 | BEST12. | BEST32. |
| 9 | V8 | Num | 8 | BEST12. | BEST32. |
| 10 | V9 | Num | 8 | BEST12. | BEST32. |
| 11 | V10 | Num | 8 | BEST12. | BEST32. |
| 12 | V11 | Num | 8 | BEST12. | BEST32. |
| 13 | V12 | Num | 8 | BEST12. | BEST32. |
| 14 | V13 | Num | 8 | BEST12. | BEST32. |
| 15 | V14 | Num | 8 | BEST12. | BEST32. |
| 16 | V15 | Num | 8 | BEST12. | BEST32. |
| 17 | V16 | Num | 8 | BEST12. | BEST32. |
| 18 | V17 | Num | 8 | BEST12. | BEST32. |
| 19 | V18 | Num | 8 | BEST12. | BEST32. |
| 20 | V19 | Num | 8 | BEST12. | BEST32. |
| 21 | V20 | Num | 8 | BEST12. | BEST32. |
| 22 | V21 | Num | 8 | BEST12. | BEST32. |
| 23 | V22 | Num | 8 | BEST12. | BEST32. |
| 24 | V23 | Num | 8 | BEST12. | BEST32. |
| 25 | V24 | Num | 8 | BEST12. | BEST32. |
| 26 | V25 | Num | 8 | BEST12. | BEST32. |
| 27 | V26 | Num | 8 | BEST12. | BEST32. |
| 28 | V27 | Num | 8 | BEST12. | BEST32. |
| 29 | V28 | Num | 8 | BEST12. | BEST32. |

| Obs | Time | Amount | Class |
|-----|------|--------|-------|
| **1** | 0 | 149.62 | 0 |
| **2** | 0 | 2.69 | 0 |
| **3** | 1 | 378.66 | 0 |
| **4** | 1 | 123.5 | 0 |
| **5** | 2 | 69.99 | 0 |

**The UNIVARIATE Procedure**
**Variable:  Amount**

| Moments | | | |
|---|---|---|---|
| N | 284807 | Sum Weights | 284807 |
| Mean | 88.3496193 | Sum Observations | 25162590 |
| Std Deviation | 250.120109 | Variance | 62560.069 |
| Skewness | 16.9777245 | Kurtosis | 845.092646 |
| Uncorrected SS | 2.00406E10 | Corrected SS | 1.78175E10 |
| Coeff Variation | 283.102645 | Std Error Mean | 0.46867661 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| Location | | Variability | |
| Mean | 88.34962 | Std Deviation | 250.12011 |
| Median | 22.00000 | Variance | 62560 |
| Mode | 1.00000 | Range | 25691 |
| | | Interquartile Range | 71.57000 |

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| Test | Statistic | | p Value | |
| Student's t | t | 188.5087 | Pr > \|t\| | <.0001 |
| Sign | M | 141491 | Pr >= \|M\| | <.0001 |
| Signed Rank | S | 2.002E10 | Pr >= \|S\| | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| Level | Quantile |
| 100% Max | 25691.16 |
| 99% | 1018.00 |
| 95% | 365.00 |
| 90% | 203.00 |
| 75% Q3 | 77.17 |
| 50% Median | 22.00 |
| 25% Q1 | 5.60 |
| 10% | 1.00 |
| 5% | 0.92 |
| 1% | 0.12 |
| 0% Min | 0.00 |

**The UNIVARIATE Procedure**
**Variable:  Amount**

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0 | 284771 | 11898.1 | 54019 |
| 0 | 284086 | 12910.9 | 46842 |
| 0 | 283950 | 18910.0 | 151297 |
| 0 | 283783 | 19656.5 | 58466 |
| 0 | 283720 | 25691.2 | 274772 |

# Frequência das Concessões - Fraudulentas ou Não

## The FREQ Procedure

| Class | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|-------|-----------|---------|----------------------|--------------------|
| **0** | 284315 | 99.83 | 284315 | 99.83 |
| **1** | 492 | 0.17 | 284807 | 100.00 |

**Valor Total Transacionado em Não Fraudes e Fraudes**

Valor Médio Transacionado em Não Fraudes e Fraudes

**Volume de Crédito Movimentado em Fraudes e Não Fraudes**

Volume de Crédito Movimentado em Fraudes e Não Fraudes - Normalizado

Transações Não Fraudulentas ao Longo do Tempo

Transações Fraudulentas ao Longo do Tempo