

## **Credit Card Transactions Tables Schema:**

*credit\_card\_users\_de.parquet*

This table contains a record for each of the Credit Card customers.

*2,000 rows & 18 columns. Size: 151KB*

Table focused on individual demographic and financial information. It includes personal details such as age, gender, and address, as well as financial metrics like per capita income based on ZIP code, personal yearly income, total debt, and FICO credit score. The table also includes geographic coordinates, potentially for geospatial analysis. Additionally, it has information about credit usage, as evidenced by the field for the number of credit cards owned by the person. Overall, this table could be valuable for a variety of analyses, ranging from demographic studies to financial risk assessment.

<b>Data Element</b>	<b>Type</b>	<b>Description</b>
<b>Person</b>	object	Customer full name
<b>Current Age</b>	int64	The current age of the customer
<b>Retirement Age</b>	int64	The Retirement age of the customer
<b>Birth Year</b>	int64	Birth year of the customer
<b>Birth Month</b>	int64	Birth month of the customer
<b>Gender</b>	object	The gender of the customer
<b>Address</b>	object	The street address where the customer lives
<b>Apartment</b>	float64	
<b>City</b>	object	The city where the customer lives
<b>State</b>	object	State where the customer lives
<b>Zipcode</b>	int64	The zipcode where the customer lives
<b>Latitude</b>	float64	Latitude where the customer lives
<b>Longitude</b>	float64	Longitud where the customer lives
<b>Per Capita Income - Zipcode</b>	object	Per Capita Income by Zipcode
<b>Yearly Income - Person</b>	object	Yearly Income of the customer
<b>Total Debt</b>	object	Total debt of the customer
<b>FICO Score</b>	int64	FICO Score of the customer
<b>Num Credit Cards</b>	int64	Number of credit cards of the customer

*\*The index of the customer matches with the column User in other tables.*

### *sd254\_cards\_de.parquet*

This table contains a record for each credit card that the customer has.

**6,146 rows & 13 columns. Size: 149KB**

The table contains sensitive but fake data such as card numbers and CVV codes, as well as information on the brand and type of the card, its expiration date, and whether it has an embedded security chip. Additionally, it tracks the number of cards issued under the same account, credit limits, and the account's opening date. The table also includes a column that flags if the card's details have appeared on the dark web.

Data Element	Type	Description
User	int64	The ID of the customer matches with the index of the customer in table credit_card_users_de
CARD INDEX	int64	Unique card code (matches with card)
Card Brand	object	The brand of the card (e.g. Visa, Mastercard, etc.)
Card Type	object	The type of the credit card (e.g. Debit, Credit, etc.)
Card Number	int64	The number card of the credit card
Expires	object	The expiration date of the credit card MM/YYYY
CVV	int64	The number CVV of the credit card
Has Chip	object	Indicate if the credit card has a chip or not YES/NO
Cards Issued	int64	The number of issues that the credit card has had
Credit Limit	object	The limit amount that the credit card has
Acct Open Date	object	The date when the account was Open
Year PIN last Changed	int64	The year when the PIN was changed
Card on Dark Web	object	Indicate if the card is on the dark web Yes/No

### *credit\_card\_transaction\_data\_de.parquet*

This table contains a record of each of the transactions done by customers with credit cards.

**6,877,837 rows & 15 columns. Size: 85,166KB**

Detailed transactional information related to credit card usage. It provides a granular view of each transaction, capturing who made it (User and Card IDs), when it was made (Year, Month,

Day, Time), and where it was made (Merchant Name, City, State, ZIP code). The table also includes important transactional attributes like the Amount and whether a Chip was used. Additionally, it keeps track of any Errors in the transaction and flags if the transaction was fraudulent.

Data Element	Type	Description
User	int64	The ID of the customer matches with the index of the customer in table credit_card_users de
Card	int64	Unique card code (matches with CARD INDEX)
Year	int64	The year when the transaction was done.
Month	int64	The Month when the transaction was done.
Day	int64	The Day when the transaction was done.
Time	object	The Time when the transaction was done.
Amount	object	The amount when the transaction.
Use Chip	object	Indicate the form that was used with the chip (e.g. Chip Transaction, Swipe Transaction, etc)
Merchant Name	int64	The merchant name code.
Merchant City	object	The merchant city where the transaction was done.
Merchant State	object	The merchant states where the transaction was done.
Zip	float64	The zipcode where the transaction was done.
MCC	int64	The Merchant Category Codes of the transaction.
Errors?	object	Indicate if the transaction had an error.
Is Fraud?	object	Indicate if it was a Fraud transaction or not, Yes/No

Citation for data:

Credit Card Transactions dataset

<https://www.kaggle.com/datasets/ealtman2019/credit-card-transactions>

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