

BUSINFO 704 2024 Q3 Project

Metadata for Bank A's transaction records

1. TransactionID

- Description: A unique identifier for each transaction.
- Data Type: String
- Example: TX0000439707

2. CustomerID

- Description: A unique identifier for each customer.
- Data Type: String
- Example: CU010000

3. TransactionDate

- Description: The date and time when the transaction occurred.
- Data Type: DateTime
- Example: 2024-07-29 13:45:00

4. TransactionAmount

- Description: The amount of money involved in the transaction.
- Data Type: Float/Decimal
- Example: 250.75

5. MerchantID

- Description: A unique identifier for the merchant where the transaction took place.
- Data Type: String/Integer
- Example: MC0082 or blank/NA

6. MerchantLocation

- Description: The location of the merchant where the transaction occurred.
- Data Type: String
- Example: Timothyborough or blank/NA
- Note: locations are synthetic data

7. TransactionType

- Description: The type of transaction (e.g., purchase, refund, withdrawal).
- Data Type: String
- Example: Purchase

8. FraudLabel

- Description: Indicator of whether the transaction is fraudulent.
- Data Type: Boolean/Integer
- Example: 0 (not fraud), 1 (fraud)

9. Age

- Description: The age of the customer.
- Data Type: Integer
- Example: 34

10. AccountID

- Description: A unique identifier for the customer's account.
- Data Type: String
- Example: AC20000002578

11. joint_flag

- Description: Indicator of whether the account is a joint account (see Figure 1).
- Data Type: Boolean/Integer
- Example: 0 (not joint), 1 (joint)

12. agent

- Description: Identifier for the agent device handling the transaction, e.g. chrome, safari etc for online purchase / mobile app purchase etc.

- Data Type: String
- Example 1: ATM
- Example 2: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/531.1 (KHTML, like Gecko) Chrome/54.0.899.0 Safari/531.1

13. balance

- Description: The current balance of the customer's account.
- Data Type: Float/Decimal
- Example: 1500.50
- Note: Debit transactions (deposit etc.) are not included in the data

Figure 1: Explanation of joint accounts

