## **1. Financial Transactions Dataset (financial\_transactions.csv)**

### **Description:**

This dataset contains records of financial transactions, including details about transaction types, customers, and amounts.

### **Schema:**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| transaction\_id | int64 | Unique identifier for the transaction |
| date | object (string) | Date of the transaction (format may need standardization) |
| customer\_id | int64 | Unique identifier for the customer involved in the transaction |
| amount | float64 | Transaction amount in a given currency (currency not specified) |
| type | object (string) | Type of transaction (e.g., "credit", "debit") |
| description | object (string) | Description or details of the transaction |

### **Summary Statistics:**

* **Total Records:** 100,000
* **No Missing Values** in any column.
* **Potential Enhancements:** If currency information is needed, it should be included.

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## **2. Accounting Dataset (accounting\_dataset.csv)**

### **Description:**

This dataset contains detailed financial accounting transactions, including metadata related to risk incidents and user activity.

### **Schema:**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| Transaction\_ID | object (string) | Unique transaction identifier |
| Date | object (string) | Date of the transaction |
| Account\_Number | int64 | Account number associated with the transaction |
| Transaction\_Type | object (string) | Type of transaction (e.g., "Invoice Payment", "Refund") |
| Amount | float64 | Transaction amount |
| Currency | object (string) | Currency in which the transaction was processed |
| Counterparty | object (string) | Entity involved in the transaction |
| Category | object (string) | Categorization of transaction (e.g., "Salary", "Utilities") |
| Payment\_Method | object (string) | Mode of payment (e.g., "Credit Card", "Bank Transfer") |
| Risk\_Incident | int64 | Indicates whether a risk incident occurred (0: No, 1: Yes) |
| Risk\_Type | object (string) | Type of risk associated with the transaction (if applicable) |
| Incident\_Severity | object (string) | Severity level of the risk incident (e.g., "High", "Low") |
| Error\_Code | object (string) | Error code associated with failed transactions |
| User\_ID | object (string) | Unique identifier for the user performing the transaction |
| System\_Latency | float64 | Processing time delay for the transaction |
| Login\_Frequency | int64 | Number of times the user has logged in recently |
| Failed\_Attempts | int64 | Number of failed login attempts |
| IP\_Region | object (string) | Geographic region of the user’s IP address (some missing values) |

### **Summary Statistics:**

* **Total Records:** 10,000
* **Missing Values:** IP\_Region has some missing values (37 missing).
* **Potential Enhancements:** If error codes are categorical, mapping descriptions could be useful.