**Banking Industry Reports: Daily, Weekly, Monthly and Qtr**

**1. Daily Reports**

**Daily Transaction Report**

|  |  |
| --- | --- |
| Column Name | Description |
| Transaction ID | Unique identifier for each transaction |
| Account Number | Customer's account number |
| Transaction Type | Deposit, Withdrawal, Transfer, etc. |
| Amount | Amount involved in the transaction |
| Timestamp | Date and time of transaction |
| Branch Code | Code identifying the branch |
| Status | Success, Failed, Pending |

**KPIs & Metrics:**

* **Total Transactions:** COUNT(Transaction ID)
* **Total Transaction Value:** SUM(Amount)
* **Average Transaction Size:** AVG(Amount)
* **Failed Transactions Rate:** (COUNT(Failed Transactions) / COUNT(Total Transactions)) \* 100

**Sample Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Transaction ID | Account Number | Transaction Type | Amount | Timestamp | Branch Code | Status |
| TXN001 | 123456789 | Deposit | 500 | 2024-02-01 10:30 | 001 | Success |
| TXN002 | 987654321 | Withdrawal | 300 | 2024-02-01 11:15 | 002 | Success |
| TXN003 | 123456789 | Transfer | 200 | 2024-02-01 12:00 | 001 | Failed |

**Sample Report:**

* Total Transactions: 3
* Total Transaction Value: $1000
* Average Transaction Size: $333.33
* Failed Transactions Rate: 33.3%

**Daily Fraud Detection Report**

|  |  |
| --- | --- |
| Column Name | Description |
| Fraud ID | Unique identifier for fraud case |
| Account Number | Customer's account number |
| Suspicious Amount | Amount flagged as potentially fraudulent |
| Fraud Type | Type of fraud detected |
| Status | Investigated, Confirmed Fraud, False Positive |

**KPIs & Metrics:**

* **Total Fraud Cases:** COUNT(Fraud ID)
* **Confirmed Fraud Cases:** COUNT(Confirmed Fraud)
* **False Positive Rate:** (COUNT(False Positives) / COUNT(Total Fraud Cases)) \* 100

**Sample Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fraud ID | Account Number | Suspicious Amount | Fraud Type | Status |
| F001 | 123456789 | 5000 | Phishing | Confirmed Fraud |
| F002 | 987654321 | 7000 | Card Skimming | Investigated |
| F003 | 555555555 | 2000 | Account Takeover | False Positive |

**Sample Report:**

* Total Fraud Cases: 3
* Confirmed Fraud Cases: 1
* False Positive Rate: 33.3%

**2. Weekly Reports**

**Weekly Loan Performance Report**

|  |  |
| --- | --- |
| Column Name | Description |
| Loan ID | Unique loan identifier |
| Customer ID | Unique customer identifier |
| Loan Amount | Approved loan amount |
| Interest Rate | Rate of interest on the loan |
| Loan Tenure | Duration of the loan |
| Repayment Status | Paid, Overdue, Defaulted |

**KPIs & Metrics:**

* **Total Loans Issued:** COUNT(Loan ID)
* **Total Loan Value:** SUM(Loan Amount)
* **Loan Default Rate:** (COUNT(Defaulted Loans) / COUNT(Total Loans)) \* 100

**Sample Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Loan ID | Customer ID | Loan Amount | Interest Rate | Loan Tenure | Repayment Status |
| L001 | CUST001 | 5000 | 5% | 12 months | Paid |
| L002 | CUST002 | 10000 | 7% | 24 months | Overdue |

**Sample Report:**

* Total Loans Issued: 2
* Total Loan Value: $15,000
* Loan Default Rate: 50%

**Weekly Customer Retention Report**

|  |  |
| --- | --- |
| Column Name | Description |
| Customer ID | Unique customer identifier |
| Account Type | Savings, Checking, Business, etc. |
| Last Activity | Date of last customer interaction |
| Retention Status | Retained, At Risk, Churned |

**KPIs & Metrics:**

* **Retention Rate:** (COUNT(Retained) / COUNT(Total Customers)) \* 100
* **Churn Rate:** (COUNT(Churned) / COUNT(Total Customers)) \* 100

**Sample Data:**

|  |  |  |  |
| --- | --- | --- | --- |
| Customer ID | Account Type | Last Activity | Retention Status |
| CUST001 | Savings | 2024-02-01 | Retained |
| CUST002 | Checking | 2023-12-20 | At Risk |
| CUST003 | Business | 2023-11-15 | Churned |

**Sample Report:**

* Retention Rate: 33.3%
* Churn Rate: 33.3%

**3. Monthly Reports**

**Monthly Compliance Report**

|  |  |
| --- | --- |
| Column Name | Description |
| Regulation ID | Compliance regulation identifier |
| Violation Type | Type of regulatory violation |
| Fine Imposed | Monetary penalty for non-compliance |
| Status | Resolved, Pending, Escalated |

**KPIs & Metrics:**

* **Total Violations:** COUNT(Violation ID)
* **Resolved Compliance Cases:** COUNT(Resolved Cases)

**Sample Data:**

|  |  |  |  |
| --- | --- | --- | --- |
| Regulation ID | Violation Type | Fine Imposed | Status |
| REG001 | AML Violation | 10000 | Resolved |
| REG002 | Reporting Delay | 5000 | Pending |

**Sample Report:**

* Total Violations: 2
* Resolved Compliance Cases: 1

**4. Quarterly Reports**

**Quarterly Financial Performance Report**

|  |  |
| --- | --- |
| Column Name | Description |
| Revenue | Total revenue in the quarter |
| Expenses | Total operating expenses |
| Net Profit | Revenue - Expenses |
| Profit Margin | (Net Profit / Revenue) \* 100 |

**Sample Data:**

|  |  |  |  |
| --- | --- | --- | --- |
| Revenue | Expenses | Net Profit | Profit Margin |
| 250000 | 100000 | 150000 | 60% |

**Sample Report:**

* Revenue: $250,000
* Expenses: $100,000
* Net Profit: $150,000
* Profit Margin: 60%s

Link to .ipynb file:

<https://drive.google.com/file/d/1mrq0y_5NDQYp3malcaOrHvaTOrsHhJ3t/view?usp=sharing>

A screenshot of a computer

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Link to Database creation file:

<https://drive.google.com/file/d/1U26BcrQcKmdViH1sP8Zt6a8rEn7fRMBP/view?usp=sharing>

**Entity Relationship Diagram for the Banking Database.**

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