# **Project Report**

# Personal Finance Tracker

#### **Abstract**

The **Personal Finance Tracker** is a SQL-based system designed to help users track and manage their personal finances. It allows recording of income, expenses, and categorizing spending. The system can generate **monthly expense summaries**, category-wise spending reports, and balance tracking, which can be exported as CSV files for easy analysis. This project simplifies financial management and aids in planning and budgeting.

#### Introduction

Managing personal finances efficiently is crucial for maintaining a stable financial life. Without proper tracking, it is difficult to know how much is spent, saved, or remaining in the budget. The **Personal Finance Tracker** project uses a relational database to:

- Store user information and financial transactions.
- Categorize expenses for better insight.
- Summarize monthly spending and income.
- Generate balance reports to monitor remaining funds.
- Export reports in CSV format for further analysis or record-keeping.

This project helps individuals track their finances, plan budgets, and make informed decisions.

## **Tools & Technologies Used**

• Database: MySQL Workbench

• Language: SQL

• Export Tools: MySQL Workbench CSV Export

### **Steps Involved**

#### **Database Creation**

First, a new database is created to store all tables and financial data. This database acts as the central storage for the project.

#### **Schema Design**

Different tables are designed to organize data efficiently:

- Users Stores user information such as name and email.
- Categories Stores expense categories like Food, Rent, Travel, etc.
- **Income** Stores records of users' income sources.
- Expenses Stores users' expenses, linked to categories.

#### **Insert Dummy Data**

Sample records are inserted into tables to test the system, including users, income entries, expense entries, and categories. This step ensures the database is ready for queries and report generation.

#### **Monthly Expense Summary**

Expenses are summarized month-wise for each user. This shows how much a user spent in each month and helps in tracking monthly financial activity.

#### **Category-Wise Spending Analysis**

Expenses are broken down by category. This step helps users understand where most of their money is going and identify areas to adjust spending.

#### **Balance Tracking**

The total income and total expenses are calculated to determine the remaining balance for each user. A view can be created to make it easy to monitor balances at any time.

#### **Exporting Reports**

The results of monthly summaries, category-wise spending, and balance tracking are exported as **CSV files**. CSV format makes the reports shareable and easy to analyze in Excel or other tools.

#### Conclusion

The **Personal Finance Tracker** project provides an effective solution to manage personal finances. By using SQL, users can:

- Record income and expenses accurately.
- Categorize and analyze spending patterns.
- Generate monthly and category-wise reports.
- Track balances and financial health.

This project can be extended further with budget alerts, recurring transactions, graphical dashboards, and predictive analysis.