Overall Project Flow

Employee Name: @Gokul Jawahar

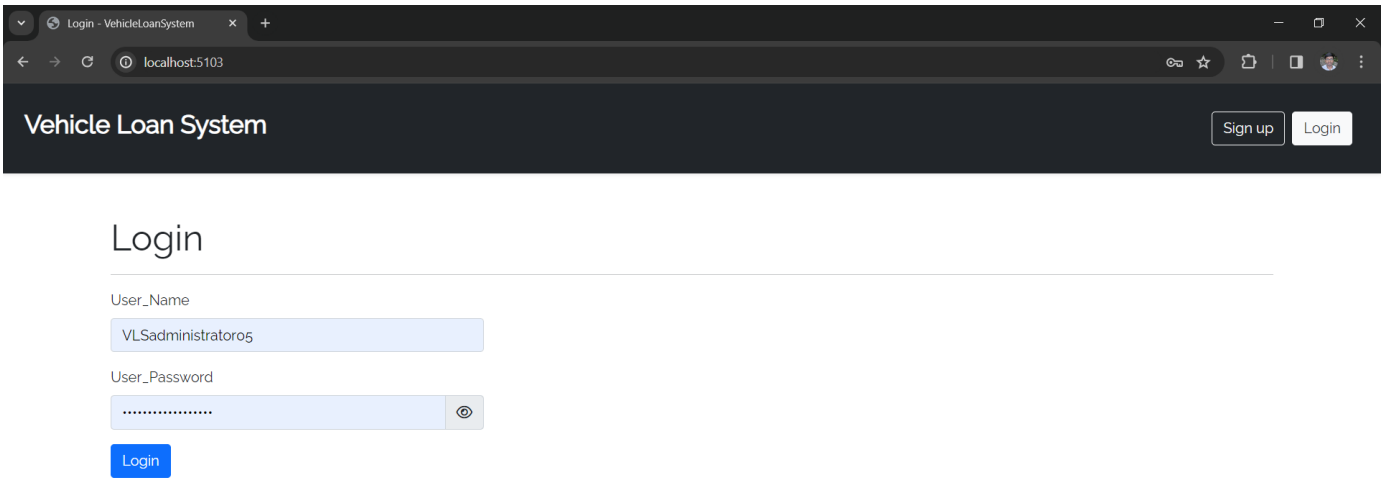
Employee id: 11986

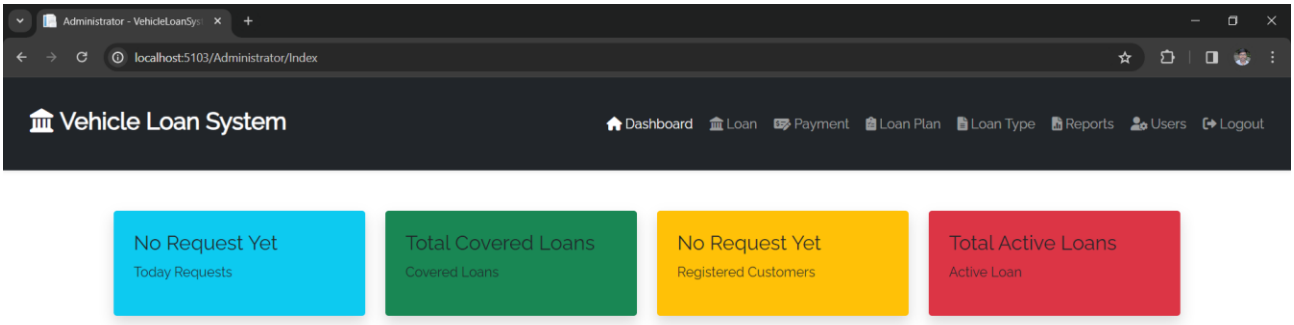
Case Study 7: Vehicle Loan System

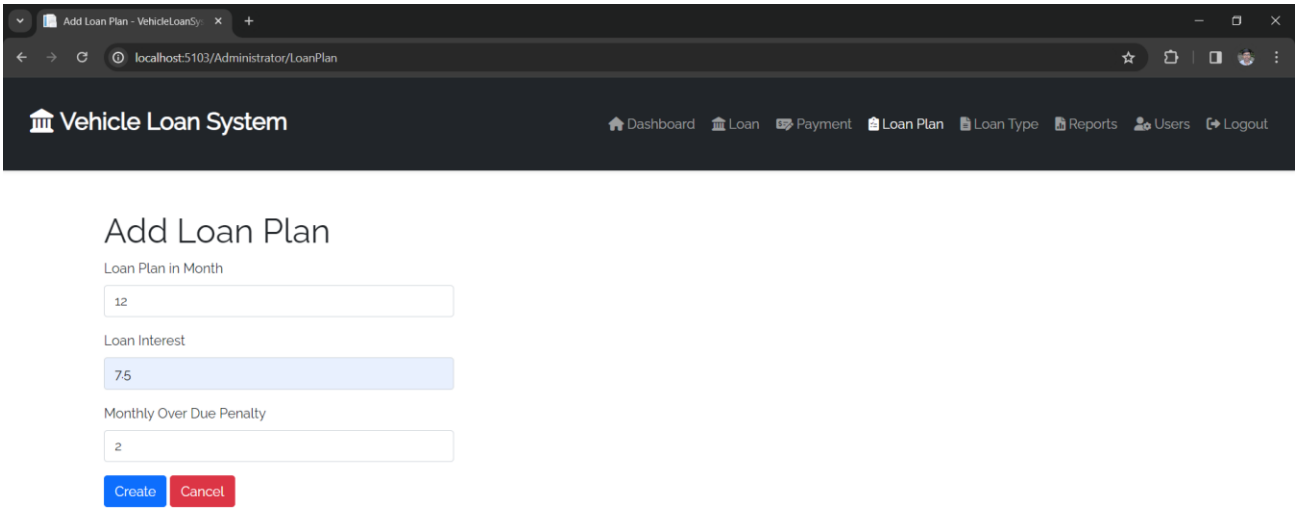
Getting a loan is a very tiring and complicated process in India. It may take from weeks to months for loans to get approved and people must visit the office again and again for documents and verification. This processing time can be reduced if we go for online solution of the same problem from bank as well as customer's side. We would like to make end-to-end loan cycle management. This will be helpful for all customer interaction with 360-degree view of customers across organizations. With the implementation of this system, we will have robust and real-time analytics, customized reports and user specific layout. Also, by implementing this we need not worry about carrying forward the data from local region to global regions. The main functionality of this system will be checking the requirement of the customer and after verification provide online loan as soon as possible and track user record.

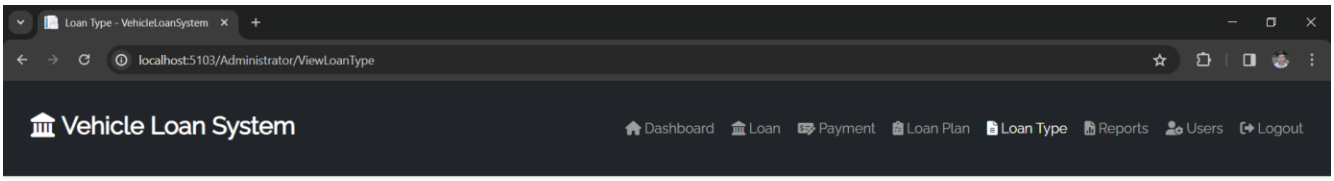
Mandatory Modules:

- Users Registration
- Applying Loan with Document Upload
- Admin Verification
- EMI Calculation
- Check loan eligibility
- Loan Repayment Report


Login - VehicleLoanSystem
localhost:5103
Vehicle Loan System
Sign up
Login
Login
User_Name
VLSadministrator05
User_Password
Login


Administrator - VehicleLoanSy
localhost:5103/Administrator/Index
Vehicle Loan System
Dashboard
Loan
Payment
Loan Plan
Loan Type
Reports
Users
Logout
No Request Yet
Today Requests
Total Covered Loans
Covered Loans
No Request Yet
Registered Customers
Total Active Loans
Active Loan

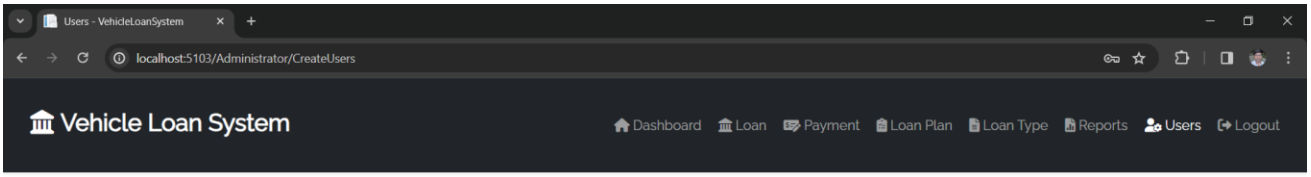

Add Loan Plan - VehicleLoanSy
localhost:5103/Administrator/LoanPlan
Vehicle Loan System
Dashboard
Loan
Payment
Loan Plan
Loan Type
Reports
Users
Logout
Add Loan Plan
Loan Plan in Month
12
Loan Interest
7.5
Monthly Over Due Penalty
2
Create
Cancel



Loan Type

Add New Type

Loan Type	Loan Descritption	
Two wheeler	For your two wheelers	Edit Details Delete



Create User

User_Name

AppTester1

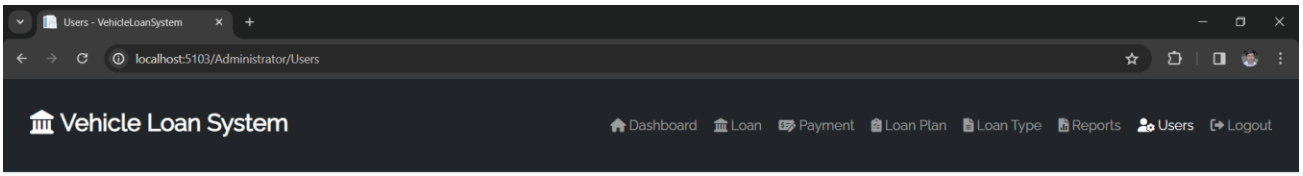
User_Password

••••••••••••

User Type

Customer

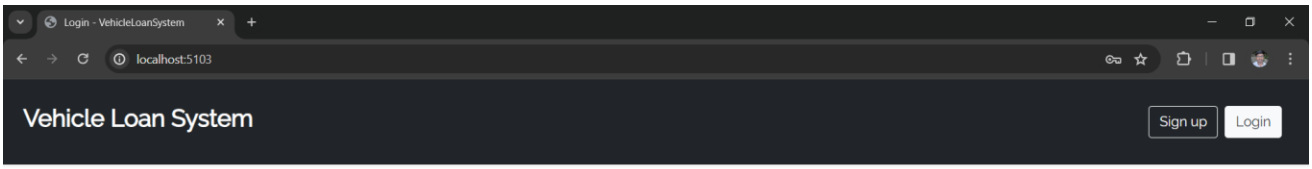
Create Cancel



Users

Create New

User_Name	User Type	
VLSadministrator05	Administrator	Edit Delete
AppTester1	Customer	Edit Delete



Login

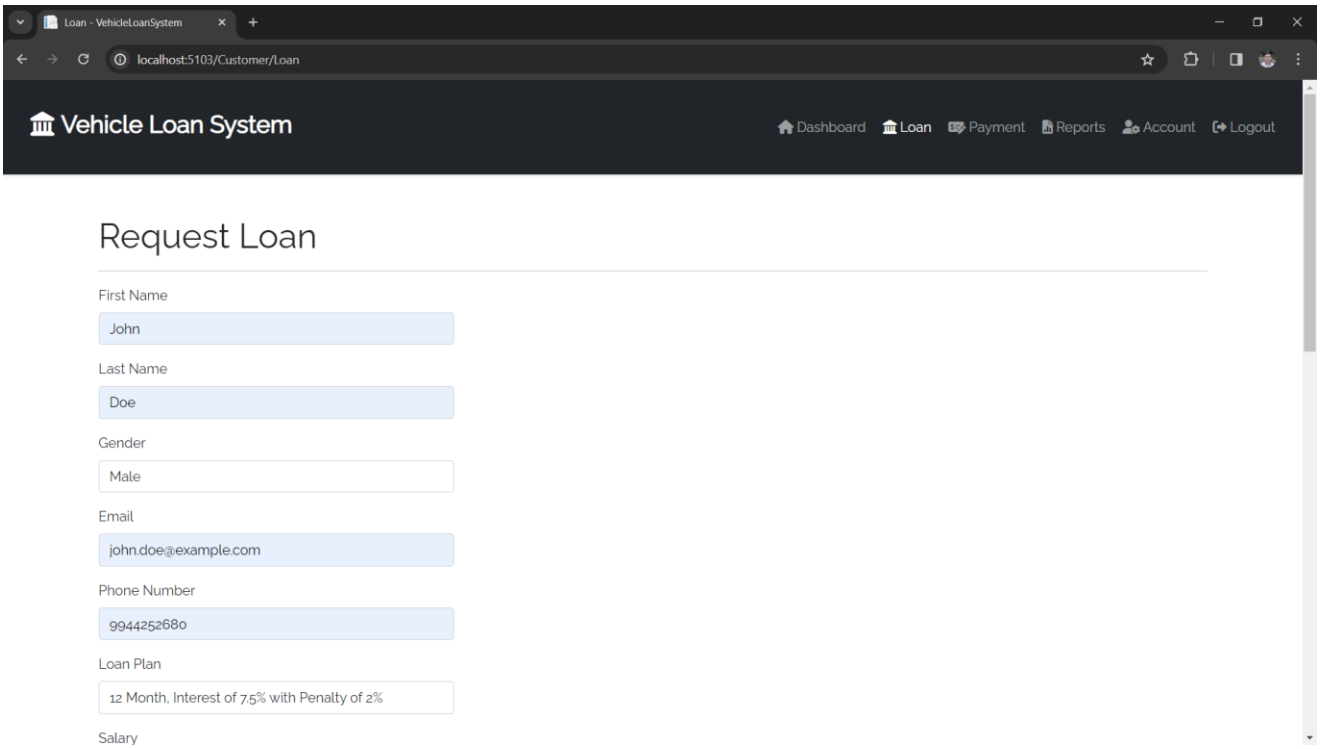
User_Name

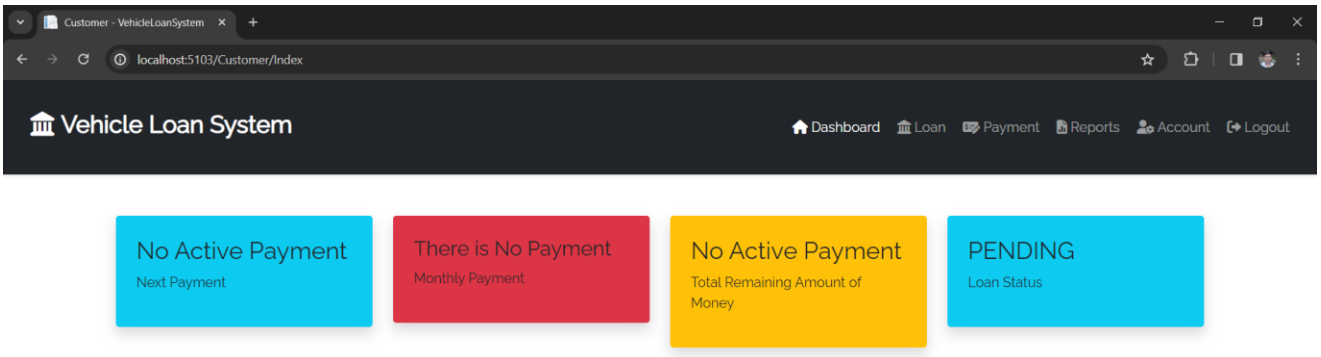
AppTester1

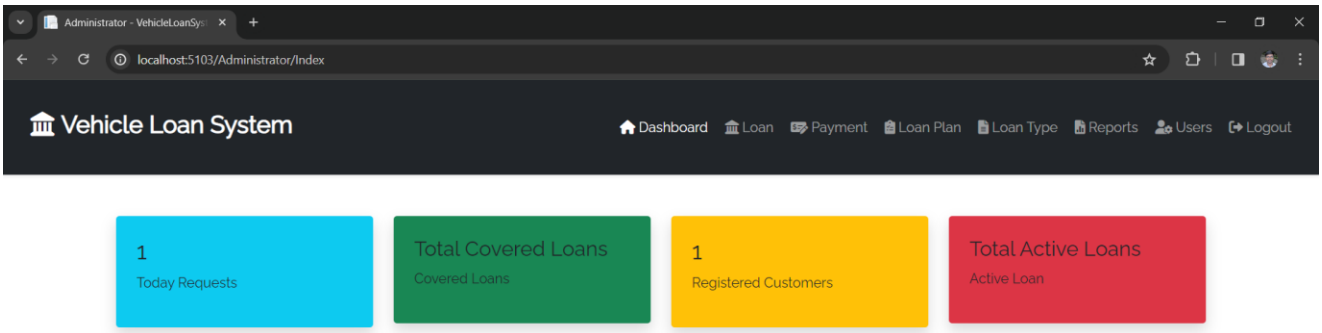
User_Password

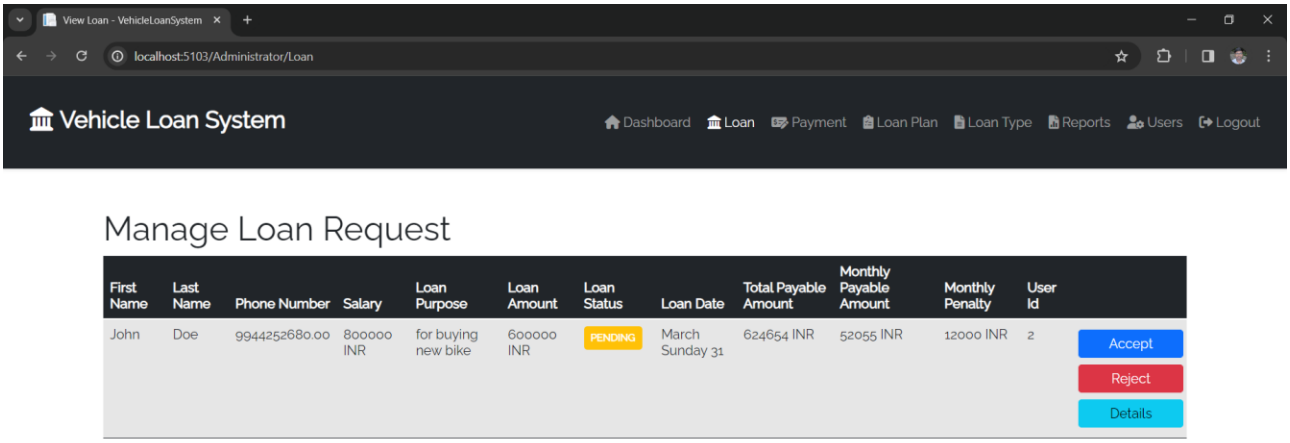
AppTester@123

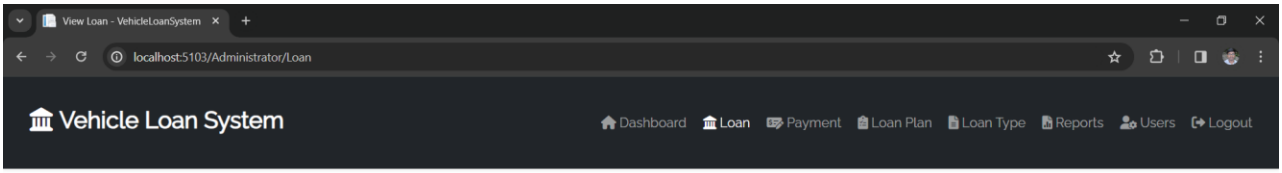
Login


Loan - VehicleLoanSystem
localhost:5103/Customer/Loan
Vehicle Loan System
Dashboard
Loan
Payment
Reports
Account
Logout
Request Loan
First Name
John
Last Name
Doe
Gender
Male
Email
john.doe@example.com
Phone Number
9944252680
Loan Plan
12 Month, Interest of 7.5% with Penalty of 2%
Salary


Customer - VehicleLoanSystem
localhost:5103/Customer/Index
Vehicle Loan System
Dashboard
Loan
Payment
Reports
Account
Logout
No Active Payment
Next Payment
There is No Payment
Monthly Payment
No Active Payment
Total Remaining Amount of Money
PENDING
Loan Status

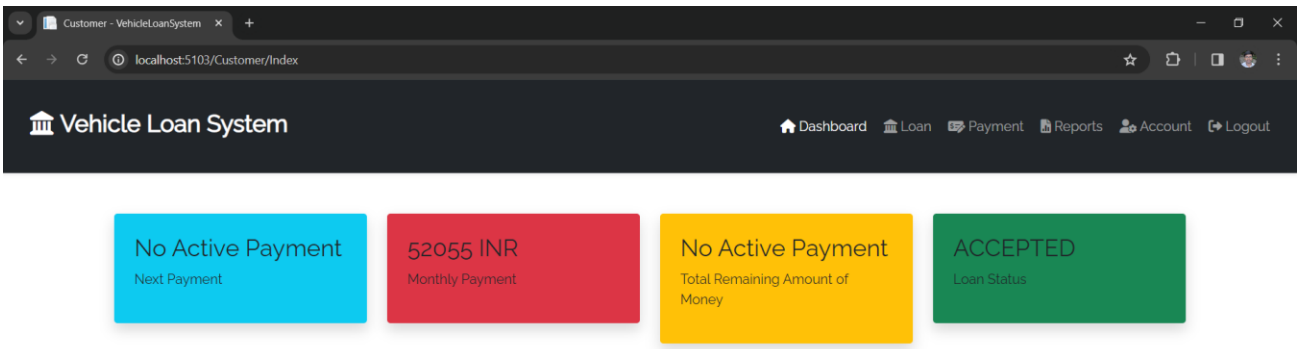

Administrator - VehicleLoanSys
localhost:5103/Administrator/Index
Vehicle Loan System
Dashboard
Loan
Payment
Loan Plan
Loan Type
Reports
Users
Logout
1
Today Requests
Total Covered Loans
Covered Loans
1
Registered Customers
Total Active Loans
Active Loan

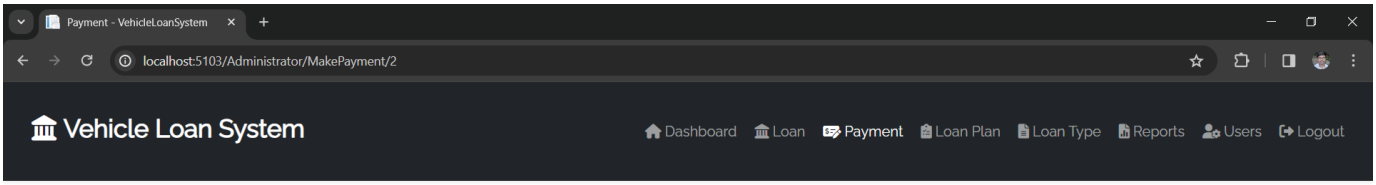

View Loan - VehicleLoanSystem
localhost:5103/Administrator/Loan
Vehicle Loan System
Dashboard
Loan
Payment
Loan Plan
Loan Type
Reports
Users
Logout
Manage Loan Request
First Name
Last Name
Phone Number
Salary
Loan Purpose
Loan Amount
Loan Status
Loan Date
Total Payable Amount
Monthly Payable Amount
Monthly Penalty
User Id
John
Doe
9944252680.00
800000 INR
for buying new bike
600000 INR
PENDING
March Sunday 31
624654 INR
52055 INR
12000 INR
2
Accept
Reject
Details



Manage Loan Request

First Name	Last Name	Phone Number	Salary	Loan Purpose	Loan Amount	Loan Status	Loan Date	Total Payable Amount	Monthly Payable Amount	Monthly Penalty	User Id	
John	Doe	9944252680.00	800000 INR	for buying new bike	600000 INR	ACCEPTED	March Sunday 31	624654 INR	52055 INR	12000 INR	2	Reject Details





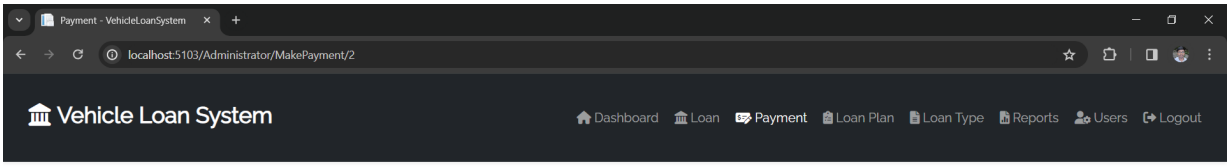
Make Payment

Payment Amount

50000

Pay

Back to List



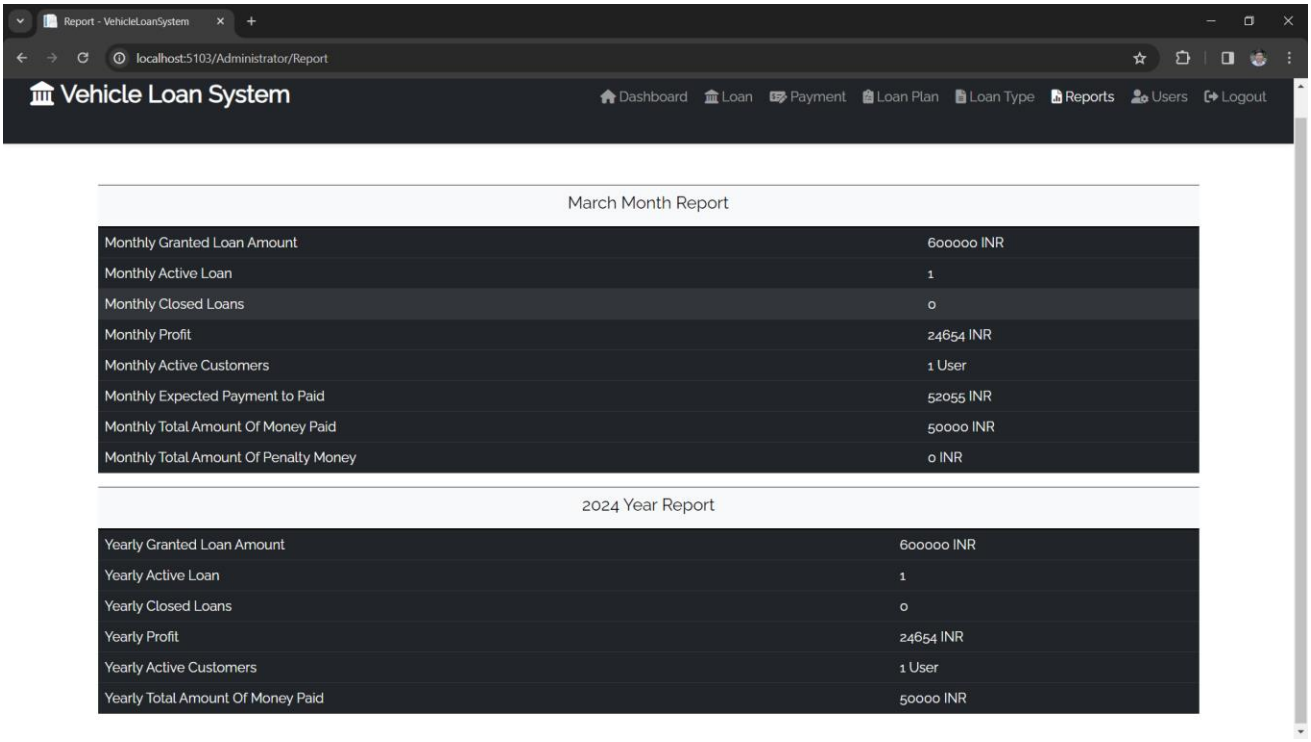
Make Payment

Payment Amount

50000

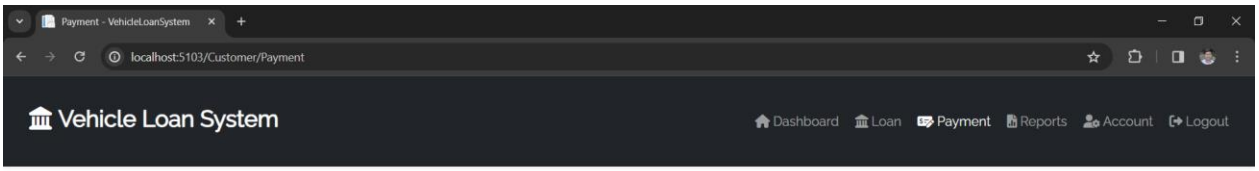
Pay

Back to List



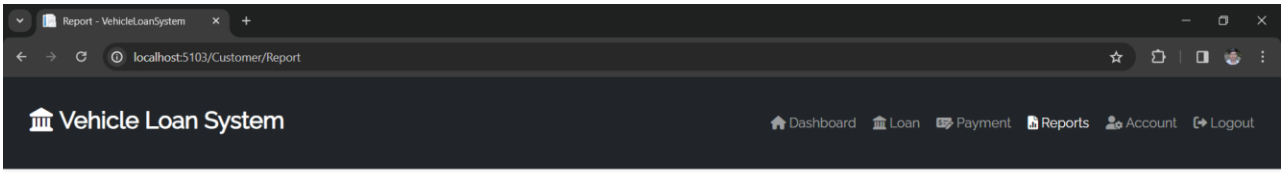
March Month Report	
Monthly Granted Loan Amount	600000 INR
Monthly Active Loan	1
Monthly Closed Loans	0
Monthly Profit	24654 INR
Monthly Active Customers	1 User
Monthly Expected Payment to Paid	52055 INR
Monthly Total Amount Of Money Paid	50000 INR
Monthly Total Amount Of Penalty Money	0 INR

2024 Year Report	
Yearly Granted Loan Amount	600000 INR
Yearly Active Loan	1
Yearly Closed Loans	0
Yearly Profit	24654 INR
Yearly Active Customers	1 User
Yearly Total Amount Of Money Paid	50000 INR

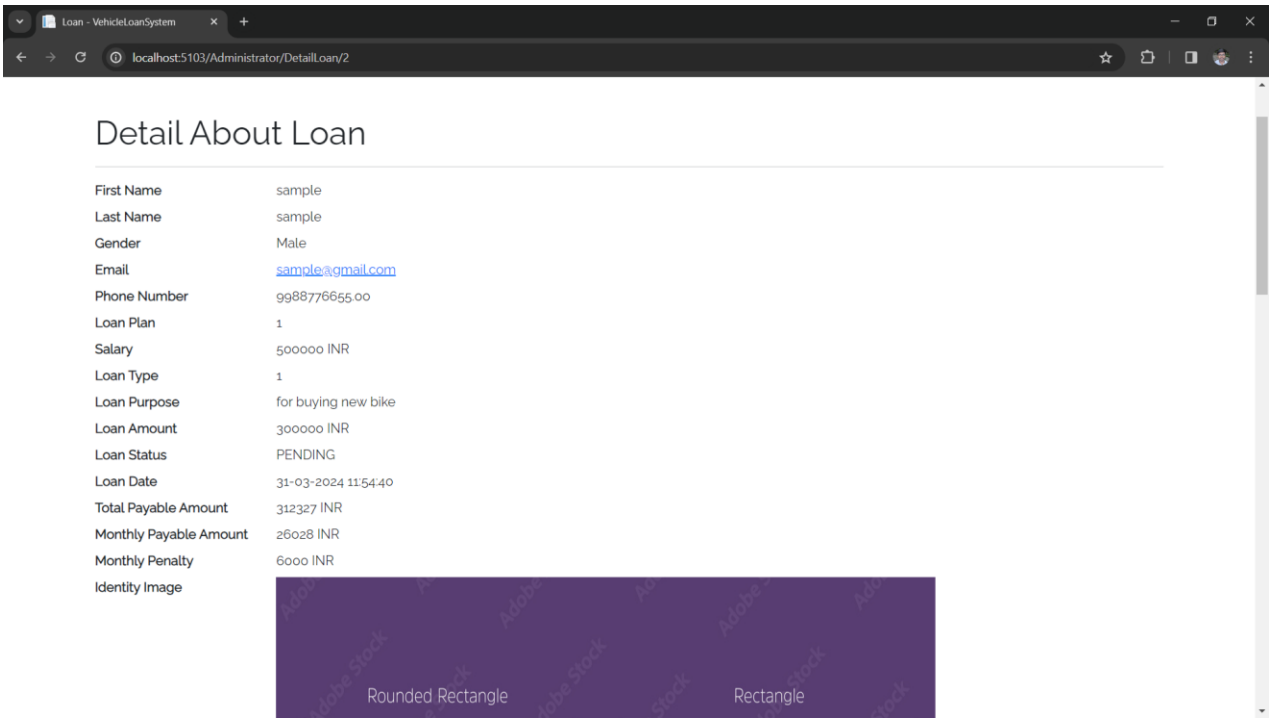


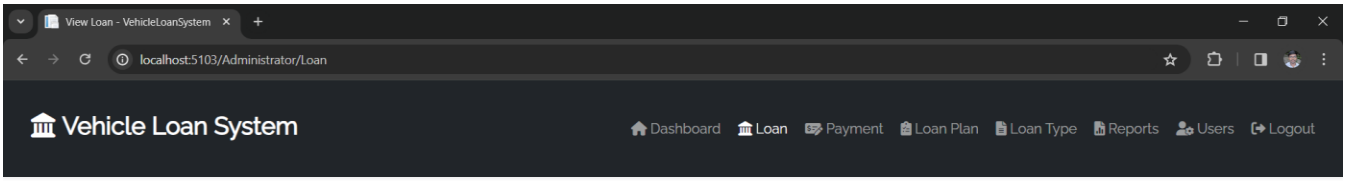
Payment

Payment Date	Payment Month	Payment Amount	Remaining Loan Amount	Remaining Month Payment	Penalty Payment Amount	Next Payment Date	Loan Status	Loan Covered
Sunday 52-2024	March	50000 INR	574654 INR	2055 INR	0 INR	April 30	ACTIVE	☐



March Month Report	
Total Accepted loan Requests	1 Loan
Total Rejected loan Requests	Empty
Total Covered loans	Empty
Total Paid Loan Money	50000 INR
Total Paid Penalty	0 INR





Manage Loan Request

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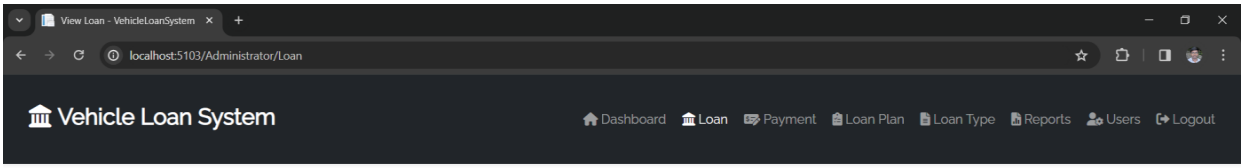
sample	sample	9988776655.00	500000 INR	for buying new bike	300000 INR	REJECTED	March Sunday 31	312327 INR	26028 INR	6000 INR	3	Accept Details



Manage Loan Request

First Name	Last Name	Phone Number	Salary	Loan Purpose	Loan Amount	Loan Status	Loan Date	Total Payable Amount	Monthly Payable Amount	Monthly Penalty	User Id	
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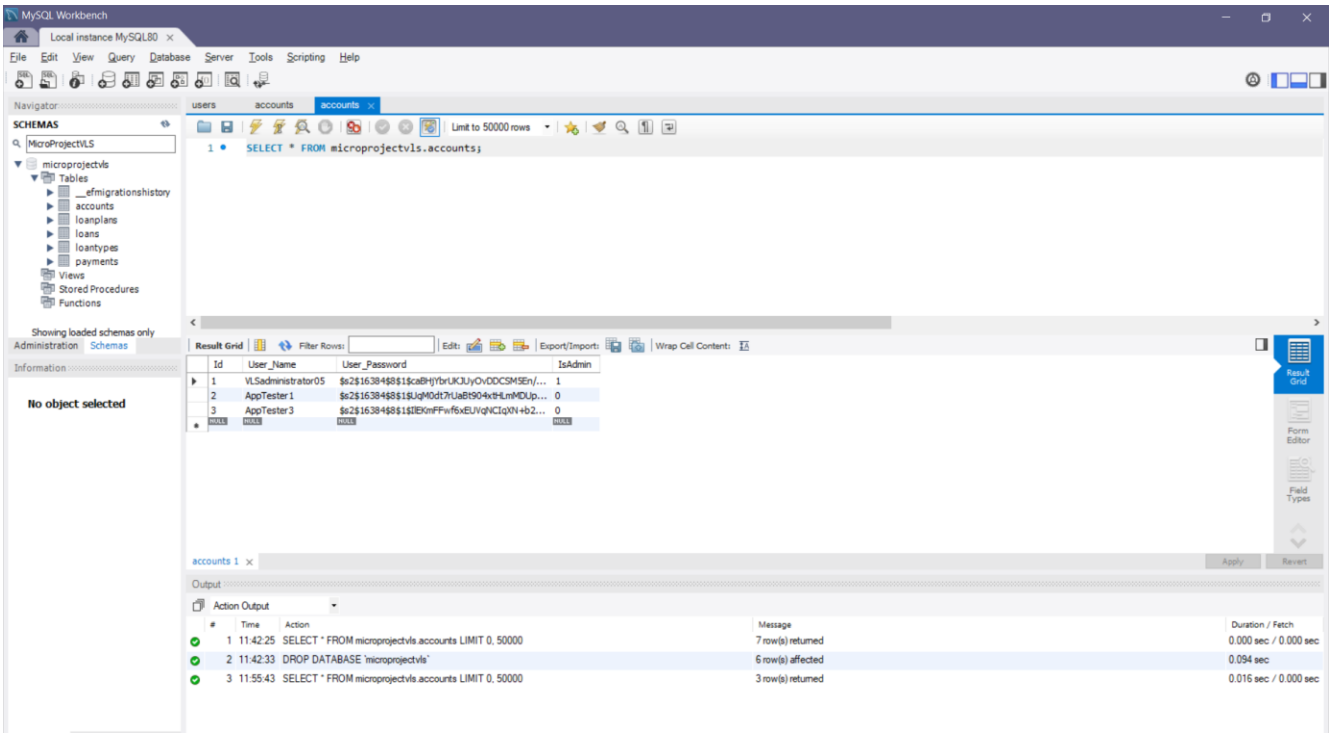
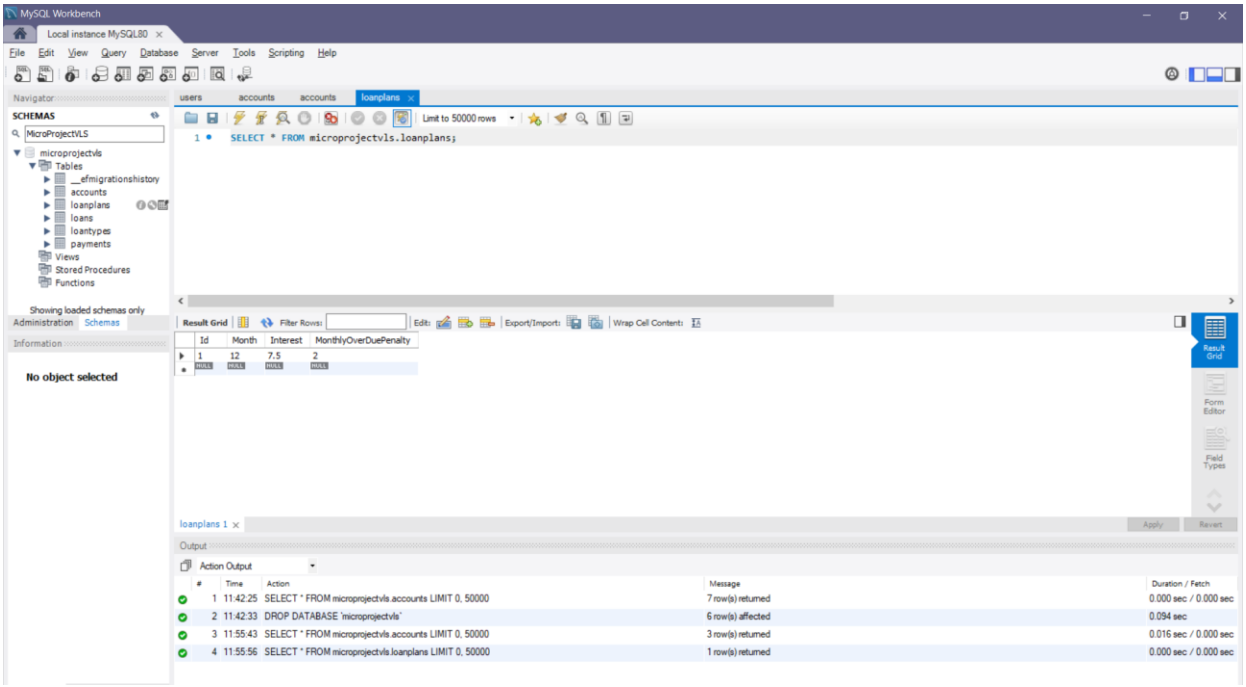
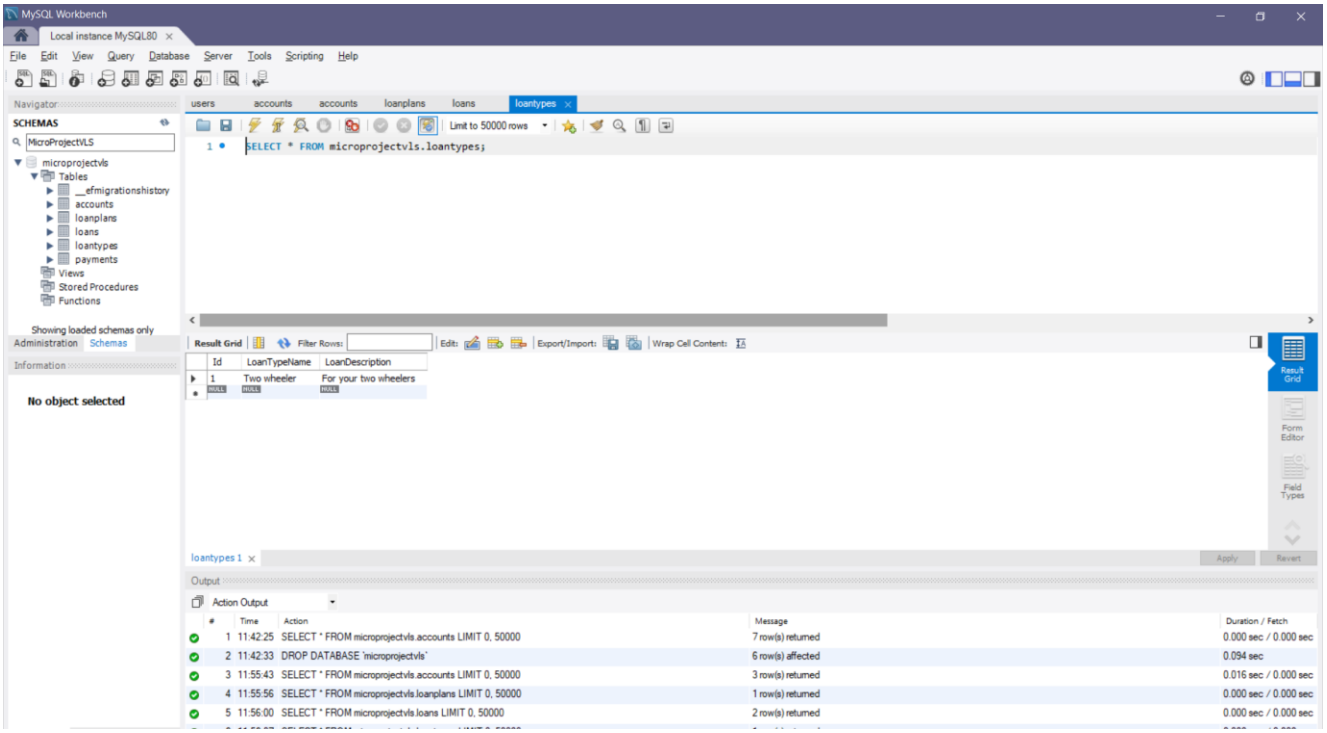
sample	sample	9988776655.00	500000 INR	for buying new bike	300000 INR	REJECTED	March Sunday 31	312327 INR	26028 INR	6000 INR	3	Accept Details




MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
MicroProjectVLS
microprojectvls
Tables
__efmigrationshistory
accounts
loanplans
loans
loantypes
payments
Views
Stored Procedures
Functions
Showing loaded schemas only
Administration Schemas
Information
No object selected
users accounts accounts loanplans
Limit to 50000 rows
1 SELECT * FROM microprojectvls.loanplans;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Id Month Interest MonthlyOverDuePenalty
1 12 7.5 2
NULL NULL NULL NULL
Result Grid
Form Editor
Field Types
loanplans 1
Apply Revert
Output
Action Output
Time Action Message Duration / Fetch
1 11:42:25 SELECT * FROM microprojectvls.accounts LIMIT 0, 50000 7 row(s) returned 0.000 sec / 0.000 sec
2 11:42:33 DROP DATABASE 'microprojectvls' 6 row(s) affected 0.094 sec
3 11:55:43 SELECT * FROM microprojectvls.accounts LIMIT 0, 50000 3 row(s) returned 0.016 sec / 0.000 sec
4 11:55:56 SELECT * FROM microprojectvls.loanplans LIMIT 0, 50000 1 row(s) returned 0.000 sec / 0.000 sec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loanplans
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loantypes
payments
Views
Stored Procedures
Functions
Showing loaded schemas only
Administration Schemas
Information
No object selected
users accounts accounts loanplans loans loantypes
Limit to 50000 rows
1 SELECT * FROM microprojectvls.loantypes;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Id LoanTypeName LoanDescription
1 Two wheeler For your two wheelers
Result Grid
Form Editor
Field Types
loantypes 1
Apply Revert
Output
Action Output
Time Action Message Duration / Fetch
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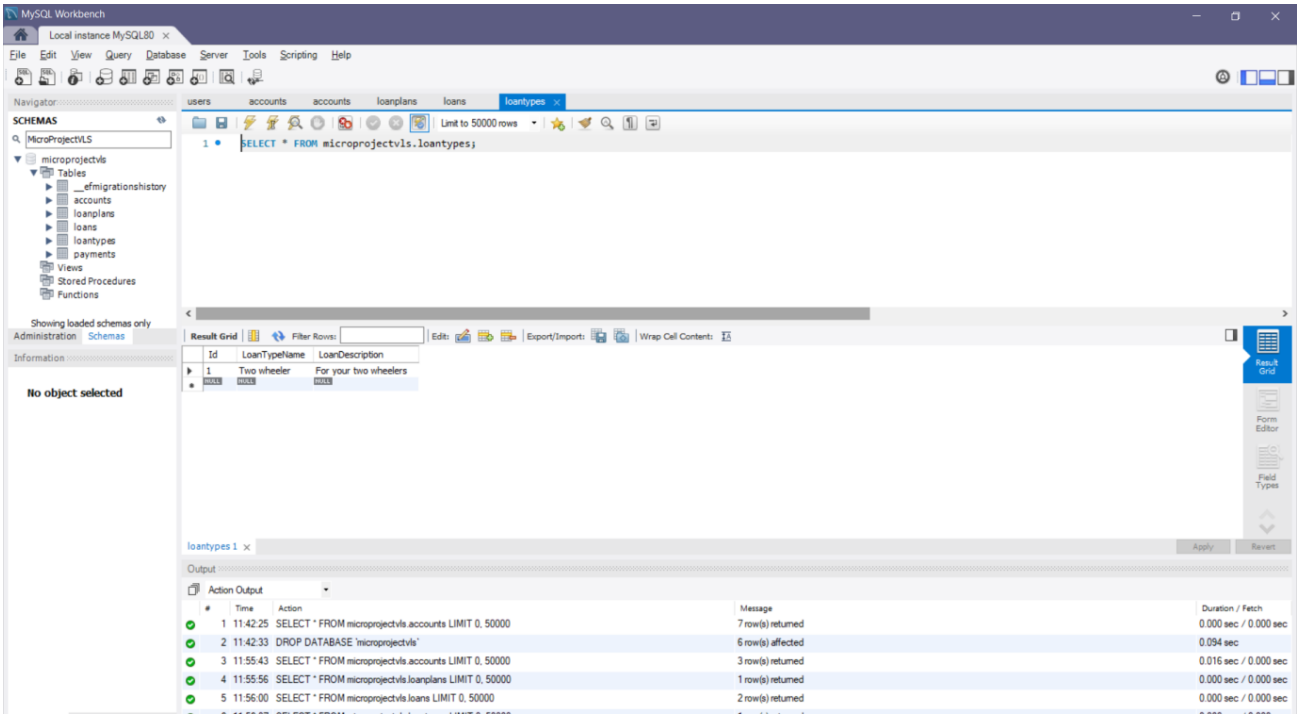
4 11:55:56 SELECT * FROM microprojectvls.loanplans LIMIT 0, 50000 1 row(s) returned 0.000 sec / 0.000 sec
5 11:56:00 SELECT * FROM microprojectvls.loans LIMIT 0, 50000 2 row(s) returned 0.000 sec / 0.000 sec


MySQL Workbench
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Information
No object selected
users accounts accounts loanplans loans loantypes
Limit to 50000 rows
1 SELECT * FROM microprojectvls.loantypes;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Id LoanTypeName LoanDescription
1 Two wheeler For your two wheelers
Result Grid
Form Editor
Field Types
loantypes 1
Apply Revert
Output
Action Output
Time Action Message Duration / Fetch
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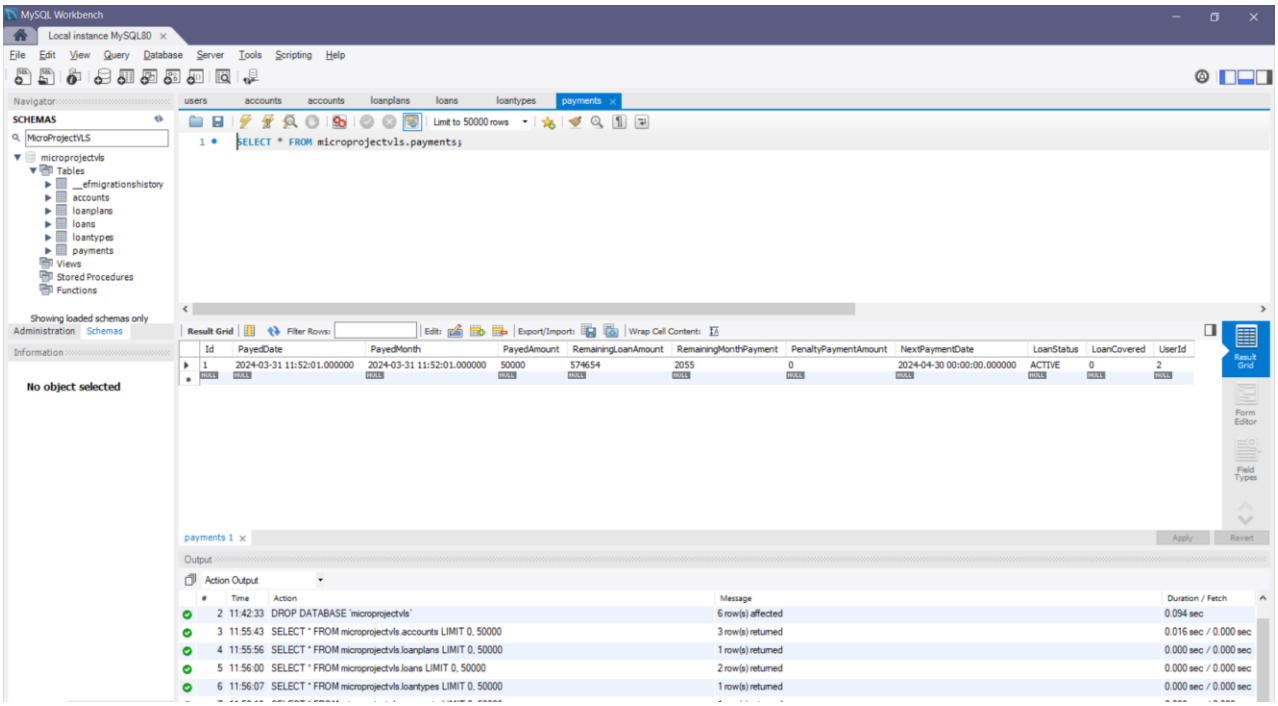
3 11:55:43 SELECT * FROM microprojectvls.accounts LIMIT 0, 50000 3 row(s) returned 0.016 sec / 0.000 sec
4 11:55:56 SELECT * FROM microprojectvls.loanplans LIMIT 0, 50000 1 row(s) returned 0.000 sec / 0.000 sec
5 11:56:00 SELECT * FROM microprojectvls.loans LIMIT 0, 50000 2 row(s) returned 0.000 sec / 0.000 sec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accounts
loanplans
loans
loantypes
payments
Views
Stored Procedures
Functions
Showing loaded schemas only
Administration Schemas
Information
No object selected
users accounts accounts loanplans loans loantypes payments
Limit to 50000 rows
1 SELECT * FROM microprojectvls.payments;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Id PayedDate PayedMonth PayedAmount RemainingLoanAmount RemainingMonthPayment PenaltyPaymentAmount NextPaymentDate LoanStatus LoanCovered UserId
1 2024-03-31 11:52:01.000000 2024-03-31 11:52:01.000000 50000 574654 2055 0 2024-04-30 00:00:00.000000 ACTIVE 0 2
Result Grid
Form Editor
Field Types
payments 1
Apply Revert
Output
Action Output
Time Action Message Duration / Fetch
2 11:42:33 DROP DATABASE 'microprojectvls' 6 row(s) affected 0.094 sec
3 11:55:43 SELECT * FROM microprojectvls.accounts LIMIT 0, 50000 3 row(s) returned 0.016 sec / 0.000 sec
4 11:55:56 SELECT * FROM microprojectvls.loanplans LIMIT 0, 50000 1 row(s) returned 0.000 sec / 0.000 sec
5 11:56:00 SELECT * FROM microprojectvls.loans LIMIT 0, 50000 2 row(s) returned 0.000 sec / 0.000 sec
6 11:56:07 SELECT * FROM microprojectvls.loantypes LIMIT 0, 50000 1 row(s) returned 0.000 sec / 0.000 sec