

Relational Schema

1. Credit_Card_Reports (ID, Type, Description, user_id)
Credit_Card_Reports.user_id references User
2. User (user_id, username, password, email, Registration Date , name, National_ID,
bank_code)
User.National_ID references Person
User.bank_code references Bank
3. Notification (Notification_Id, Content, Date_sent, Notification_Type, User_id,
bank_code)
Notification.user_id references User
Notification.bank_code references Bank
4. Person (National_ID)
5. Loan (Loan_id, user_id, Status, Loan_type, Amount, intersent_Rate, start_date,
end_date)
Loan.user_id references User
6. Technical_issues (ID, Description, Technical issues_Type, user_id)
Technical_issues.user_id references User
7. CreditCard (Card_number, available_credit, Credit_Limit, points, bills, user_id)
CreditCard.user_id references User
8. Credit_card_transcations (ID, Amount_of_money , To, user_id, card_number)
Credit_card_transcations.user_id references User
Credit_card_transcations.card_number references CreditCard
9. Credit_card_payment(payment_id, user_id, payment_amount, payment_type ,
payment_date, card_number)
Credit_card_payment.user_id references User
Credit_card_payment.card_number references CreditCard
10. Services (service_id, bill_type, user_id)
Services.user_id references User

11. Bank_Account (Account_number , user_id , status, balance , account_type)

Bank_Account.user_id references User

12. Bank_Account_transaction (id, Amount of money, To, bankAccount, user_id,
account_number)

Bank_Account_transaction.user_id references User

Bank_Account_transaction.account_number references Bank_Account

13. Third_Party_App (id, type)

14. Bills (bills_id, Due_Date, bill_type, user_id, reminder_date)

Bills.user_id references User

15. Bank(code, name , address)

16. Respond (code, user_ID, Tech_id, response)

Response.code references bank

Response.user_ID references User

Response.Tech_id references Technical_issues

17. ApplyLoan (bank_code, user_id)

ApplyLoan.bank_code references Bank

ApplyLoan.user_id references User

18. ApplyCreditCard (bank_code, user_id, cc_type)

ApplyCreditCard.bank_code references Bank

ApplyCreditCard.user_id references User

19. IssueLoan (Loan_id, bank_code, user_id)

IssueLoan.loan_id references Loan

IssueLoan.bank_code references Bank

IssueLoan.user_id references User

20. IssueCreditCard (card_number, bank_code, user_id)

IssueCreditCard.card_number references CreditCard

IssueCreditCard.bank_code references Bank

IssueCreditCard.user_id references User

21. Pay_service_with_BankAcc (user_id, account_number, service_id)

Pay_service_with_BankAcc.user_id references User

Pay_service_with_BankAcc.account_number references Bank_Account

Pay_service_with_BankAcc.service_id references Services

22. Pay_service_with_App (user_id, account_number, app_id)

Pay_service_with_App.user_id references User

Pay_service_with_App.app_id references Third_Party_App

Pay_service_with_App.service_id references Services

23. Internal_Bank_Account (Account_number , status, balance , account_type)

24. Domestic_Bank_Account (Account_number , status, balance , account_type)

25. International_Bank_Account (Account_number , status, balance , account_type)