

Accounts

Database Design

Fixed Deposit

1) Table For Fixed Deposit Initial Amount Details (F_D_I_A_D)

account_id
account_start_date
account_start_time
account_end_date
initial_amount_deposited

2) Table For Fixed Deposit Current Amount Details (F_D_C_A_D)

account_id
current_amount

3) Table For Fixed Deposit Interest Details (F_D_I_D)

account_id
interest_computation_interval
interest_rate
interest_accumulated

4) Table For Fixed Deposit Loan Details (F_D_L_D)

account_id
initial_loan_amount
current_loan_amount
loan_start_date
loan_end_date
interest_rate_on_loan

5) Table For Fixed Deposit Tax Details (F_D_T_D)

account_id
eligible_for_taxation_A_INCOME // filled by user: true / false

eligibility_for_taxation_A_INTEREST // true / false
tax_amount_for_current_year

6) Table For Fixed Deposit Withdrawal Details (F_D_W_D)

account_id
premature_withdrawal // true/false
premature_withdrawal_time //account_end_date - account_start_date
penalty_on_premature_withdrawal
onTime_withdrawal_time
onTime_withdrawal_date
amount_withdrawn
withdrawal_medium
transfer_to_account_id

7) Table For Fixed Deposit Constraints Details (F_D_Co_D)

maximum_loan_amount // 80% of current_amount now
date_for_check_annual_interest // 1st January
tax_percentage // 10% currently
no_taxation_annual_interest_limit // Rs.10000 annually

8) Table For Fixed Deposit Account Close Details (F_D_CI_D)

account_id
remaining_balance
account_close_time
account_close_date

9) Table For Fixed Deposit Allocated I_D (F_D_A_I_D)

account_id
status

Current Account

1) Table For Current Account Initial Account Details (C_A_I_A_D)

account_id
initial_amount_deposited
account_start_date
account_start_time

2) Table For Current Account Current Amount Details (C_A_C_A_D)

account_id
current_amount

3) Table For Current Account Withdrawal Details (C_A_W_D)

account_id
withdrawal_id
amount_withdrawn
withdrawal_time
withdrawal_date
withdrawal_method
transfer_to_account_id

4) Table For Current Account Number Of Transactions Details (C_A_N_T_D)

account_id
number_withdrawals // withdrawal id
number_deposits // deposit_id

5) Table For Current Account Deposit Details (C_A_D_D)

account_id
deposit_id
deposit_method
amount_deposited
deposit_time
deposit_date

6) Table For Current Account Close Details (C_A_C_D)

account_id
remaining_balance
account_close_time
account_close_date

7) Table For Current Account Allocated I_D (C_A_A_I_D)

account_id
status

Savings Account

1) Table For Savings Account Initial Account Details (S_A_I_A_D)

account_id
account_start_date
account_start_time
initial_amount_deposited

2) Table For Savings Account Current Amount Details (S_A_C_A_D)

account_id
current_amount

3) Table For Savings Account Withdrawal Details (S_A_W_D)

account_id
withdrawal_id
amount_withdrawn
withdrawal_time
withdrawal_date
withdrawal_method
transfer_to_account_id

4) Table For Current Account Number Of Transactions Details (S_A_N_T_D)

account_id
number_withdrawals // withdrawal id
number_deposits // deposit_id

5) Table For Savings Account Daily Withdrawal Tracking Details (S_A_D_W_T_D)

account_id
total_withdrawal_today
number_withdrawal_today

6) Table For Savings Account Deposit Details (S_A_D_D)

account_id
deposit_id
deposit_method
amount_deposit
deposit_time
deposit_date

7) Table For Savings Account Constraints Details (S_A_Co_D)

rate_of_interest_per_day
minimum_balance
maximum_amount_withdrawn_per_day
maximum_number_withdrawals_per_day

8) Table For Savings Account Close Details (S_A_CI_D)

account_id
remaining_balance
account_close_time
account_close_date

9) Table For Savings Account Allocated I_D (S_A_A_I_D)

account_id
status

Software Engineering Project
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