Course code : DATA2201

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Assignment code: SKS National Bank Project

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**Phase I: Analysis and Design**

**Requirements:**

1. SKS is organized into branches.
2. Each branch is located in a commercial building, in a particular city.
3. Each branch is identified by a unique branch name.
4. Each branch keeps a records of accounts, transactions and loans that originate from that branch.
5. Bank customers have a name, ID , a home address.
6. A customer may have an account ( checking or savings ) or both.
7. A customer can have more than one account.
8. A customer may take out loans
9. A customer can have personal banking representatives or loans officers or both
10. Each account has current balance, dated list of transactions, monthly service fee, an associated interest rate.
11. The balance below determined amount will be charged with monthly service fee .
12. Each account transaction is characterized by transaction amount in $CAD, the type ( deposit or withdrawal ), the check number ( for checking account withdrawals only ).
13. A loan is associated with a particular branch and is held by a customer.
14. The bank will track the loan amount and monthly payment of customers
15. Each loan payment is associated with a monthly payment date and a loan payment number.
16. A loan payment number is unique within a specific kind of loan, no need unique among all loans.
17. Bank employees ( including banking representatives or loans officers ) have unique employee ID, a manager, an employee start date, a name, a home postal address, set of working locations.
18. A location may be a branch or an administrative office.