**PROJECT NAME: Bank Management System  
  
Description:**The bank management system works on few specific terms which are:  
Each bank contains different branches and each branch have a manager.  
Every bank branch has a variety of departments like teller staff, money exchange staff, cleaning staff etc.   
There are two types of accounts:  
**Savings account:**  
This type of account means that a small amount of interest rate will be added to the total balance only if the user does not withdraw it for a curtain amount of time.  
**Current account:**  
This account type means that there will be no interest rate added to the balance of the customer.  
Every customer or user is assigned a unique account number on the basis of which their account is accessed and managed.   
The customer also has the option to deposit or withdraw money from the bank. They can also transfer funds to other accounts either in the same bank or other banks.  
The bank also keeps a record of all the employees. This record can be accessed through the unique id of the employee which is assigned to them on hiring.

The following entities are made in bank management system:  
  
**Entities:**  
1. Employee  
2. Customer   
3. Branch  
4. Transaction (Withdraw, Deposit)  
5. Current Account  
6. Savings Account  
7. Manager  
8. Loans  
9. Customer Account  
10. Department  
  
  
  
**Attributes:**

1.Employees

a. Name

b. CNIC

c. E\_ID

d. Address

e. Title

f. Salary

g. Department

i. Shift  
  
2.Customer

a. Name

b. CNIC

c. Married

d. Occupation

e. C\_id

f. Address  
  
3. Branch

a. Branch\_id

b. name

c. manager

d. address

f. Total\_Accounts

4. Transaction

a. T\_id

b. amount

c. details  
  
 d. date

e. Acc\_number  
  
5. Current Account

a. Acc\_id  
 b. Balance

6. Saving Account

a. Year\_interest\_rate

b. Interest \_percentage

c. Customer Account id  
  
7. Manager

a. M\_ID

b. Employee ID

c. Department ID

8. Loans

a. Acc\_id

b. LoanedBalance

c. Issue Date

d. Return Date

9. Customer Account

a. Acc\_number

b. Balance

b. Mobile\_Number

c. EmergencyNumber

10.Department

a. Name

b. D\_id

c. Number of employees

**Relations:**

**Employee**:

Primary key: E\_ID  
  
Foreign key: D\_ID

**Customer**:

Primary key: C\_ID

**Transaction**:

Primary key: T\_ID

Foreign key: Saving Account ID, Current Account ID  
  
**Current Account:**

Primary key: Current Account ID

Foreign key: Customer Account ID  
  
  
**Saving Account:**

Primary key: Saving Account ID

Foreign key: Customer Account ID

**Branch**:

Primary key: Bank Branch ID

Foreign key: Employee ID

**Loans:**

Primary key: Loans Account ID

Foreign key: Account ID

**Customer Account:**

Primary key: Account Number

Foreign key: Customer ID

**Department**:

Primary key: D\_ ID