Database Management Systems

Year 2, Semester 1



Lab Sheet 05

Consider	the schema	for the Bar	ık example	e you hav	e used in	the previous	two lab	sheets as
follows:								

Bank (bCode, bankName, registration)

Branch (bCode, branchNo, branchName, address)

Foreign key (bCode) references Bank (bCode)

AccountType (accCode, accName, description, intRate, maxCheques, type)

Account (accNo, balance, bCode, branchNo, accCode)

Foreign key (bCode,branchNo) references Branch(bCode,branchNo)

Foreign key (accCode) references AccountType(accCode)

Customer (custNo, custName, address, phone, NIC, PIN)

Belongs_to (custNo, accNo)

Foreign key (custNo) references Customer (custNo)

Foreign key (accNo) references Account (accNo)

Transaction (tid, amount, description, executed By, date)

Has (tid, accountNo, type)

Foreign key (accNo) references Account (accNo)

Foreign key (tid) references Transaction (tid)

Answer the following questions based on the above schema. Use the tables you have created in Lab Sheet 03 to check the correctness of your answers.

1.	Create a view to show the customer name, branch name, branch address, and balance of top 3 customers of Sampath bank. The top 3 customers are the customers with the 3 highest balances in the Bank.					

	customers in different banks.
	Create a function which returns the total of account balances in a given branch in a
	given bank.
	Create a function which returns the total of withdrawals(i.e 'Debit') made in a gi
	year by a given customer using a given method (ex: 'Teller').
•	y (

the operation (ex: 'Credit' or 'Debit).
Create a procedure which is capable of transferring a given amount of money between
two given accounts.
erro given accounts.
Assuming that each account should have a minimum balance of Rs. 500, create a trigger
to ensure that each withdrawal would not result in a balance below the above amount.

•

8.	Assuming that the daily withdrawal limit via 'ATM' is 80000, create a trigger to ensure that no more than Rs. 80,000 is withdrawn from an account.
9.	Create a trigger to update the balance column in the account table whenever a transaction occurs based on the transaction type (ex: If certain account is credited with some amount of money, add that amount to the account table). Note: Use the procedure you have used in question 5 to do this.