National University of Computer and Emerging Sciences



In Lab Exercise 7

"Stored Procedures"

Database Systems
Spring 2023

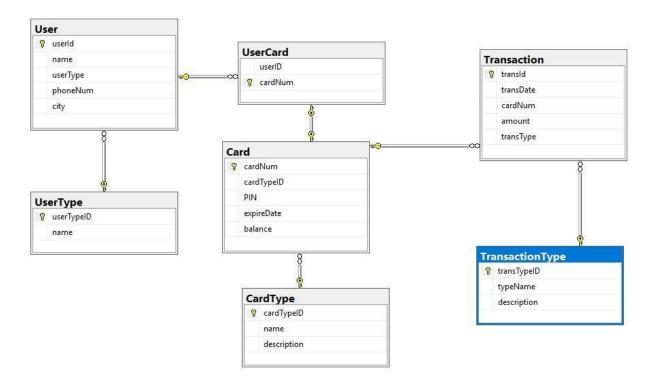
FAST-NU, Lahore, Pakistan

Exercise

For this exercise use the following schema, the script to create this schema and populate data is given in ATM.SQL file

	userTyp	elD	nar	ne					
1	2 Go		ver						
2			Go	Gold Bronze					
3			Bro						
4	4 Co		Co	mmon					
	userld	nam	ne	userTyp	е	phoneNu	m	city	
1	1 Ali			2		03036067000		Narowal	
2	2 Ahme		ned	1		03036047000		Lahore	
3	3 Age		eel	3		03036063000		Karac	hi
4	4	4 Usn		4		0303606	2000	Sialko	ot
5	5	Hafeez		2		03036061000		Lahore	
	userID	cardN		n					
1	1	133	2432	7436569					
2	2	232432		5423336					
3	3	232432		5436566					
4	1	234324		3253436					
	cardNum			cardTypeID		PIN	expire Date		balance
1	132432	7436569		3		1770	2022-07-01		43025.31
2	232432	24325423336		3		0234	2020-03-02		14425.62
3	232432	2324325436566		1		1234	2019-02-06		34325.52
4	2324325666456		2		1200	2021-02-05		24325.3	
	2343243253436		2		0034	2020-09-02		34025.12	

	cardTyp	eID	name	des	scription		
1	1		Debit	Sp	end Now, Pay N	Now	
2	2		Credit	Sp	end Now, Pay la	ater	
3	3		Gift	En	joy		
	transld	tran	sDate	ca	rd Num	amount	transType
1	1	1 2017-0		1324327436569		500	1
2	2	20	18-02-03	2343243253436		3000	3
3	3	20	17-05-06	23	324325436566	2500	2
4	4 201		6-09-09 2		324325436566	2000	1
5	5	20	15-02-10	2324325423336		6000	4
	transTyp	elD	typeNa	me	description		
1	1	1		aw	NULL		
2	2		Deposit		NULL		
3	3		Schedu	ıl	NULL		
4	4		Failed		NULL		



Write script to execute PROCEDURE for each question.

- 1- Create a procedure to display all the user's details.
- 2- Create a procedure that takes user name and display his details.
- 3- Create a procedure that takes card number and display owner's name, phone number and city.
- 4- Create a procedure that returns minimum balance in an output parameter.
- 5- Create a procedure that takes user name, id and returns no. of cards of that user in an output parameter.
- 6- Create a procedure Login that takes card number, PIN and returns the status in an output parameter. @status = 1 if card number and PIN is valid and @status = 0 otherwise.

 (Hint: IF/ELSE).
- 7- Create a procedure to update the PIN. The procedure takes Card Number, old PIN and new Valid PIN (Length 4) and print 'Updated PIN' if PIN gets updated or 'Error' otherwise.

 (Google it if you don't know how to compare the Length).
- 8- Create a procedure **WithDraw** using Login Procedure (Question#6), the procedure will take CardNumber, PIN, amount for transaction. Now insert detail of the transaction in **Transaction Table**if the transaction is successful with **TransType** =1(successful Transaction) and next **transID (calculate the max transID and increment transID, then insert in table).** If the transaction fails insert **TransType**=4 (Failed Transaction). Update the balance against the card number accordingly.