National University of Computer and Emerging Sciences



In Lab Exercise 7

Stored Procedures

Database Systems
Spring 2023

Department of Computer Science 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 G		Silver						
2				Gold					
3			Bro	nze					
4	4		Co	mmon					
	userld	nam	е	userType	F	honeNu	m	city	
1	1	Ali		2		0303606	7000	Narow	al
2	2 Ahm		ned	1		03036047000		Lahore	
3	3 Age		el	3		03036063000		Karachi	
4	4 Usman		nan	4		03036062000		Sialkot	t
5	5 Hafeez		eez	2		03036061000		Lahore	
	userID	cardN		um					
1	1	132432		7436569					
2	2	232432		5423336					
3	3	232432		5436566					
4	1	234	1324	3253436					
	cardNum			cardTypeID		PIN	expir	eDate	balance
1	132432	74365	569	3		1770	2022-07-01		43025.31
2	232432	2324325423336		3		0234	2020-03-02		14425.62
3	2324325436566		666	1		1234	2019-02-06		34325.52
4	2324325666456		156	2		1200	202	1-02-05	24325.3
5	234324			2		0034	2020	0-09-02	34025.12

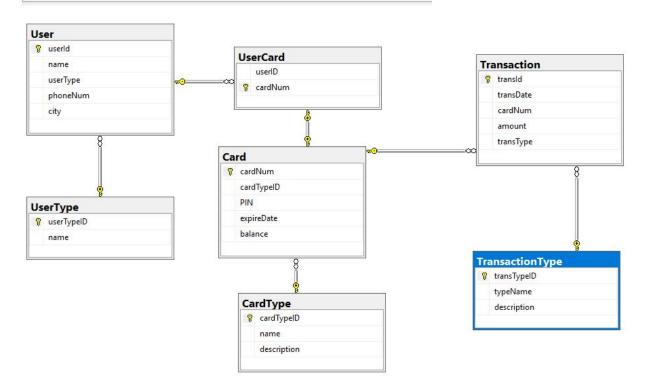
	cardTyp	eID	name	description		
1	1		Debit	Spend Now, Pay N	Now	
2	2		Credit	Spend Now, Pay la	ater	
3	3		Gift	Enjoy		
	transld	trans	sDate	cardNum	amount	transType
1	1	201	7-02-02	1324327436569	500	1
2	2	201	8-02-03	2343243253436	3000	3
3	3	201	7-05-06	2324325436566	2500	2

2324325423336 6000

	transTypeID	typeName	description
1	1	Withdraw	NULL
2	2	Deposit	NULL
3	3	Schedul	NULL
4	4	Failed	NULL

2016-09-09

2015-02-10



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.