

National University of Computer and Emerging Sciences



In Lab 5

"Nested Queries"

Database Systems Lab

Course Instructor	
Lab Instructor (s)	
Section	
Semester	Sprig 2022

Department of Computer Science FAST-NU, Lahore, Pakistan

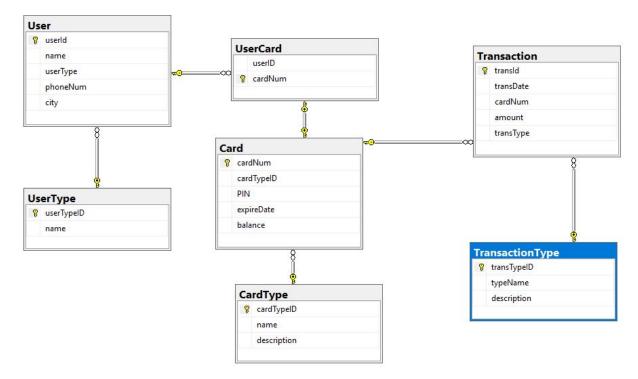


Exercise:

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

	userTyp	elD	name						
1	1		Silver						
2			Gold						
3			Bronz	e					
4	4 C		Comn	non					
	userld	name	e L	serType	p	honeNu	m	city	
1	1	Ali	3	2	-	03036067000		Narow	al
2	2	Ahm	ed	1	(03036047000		Lahore	
3	3	3 Aqeel		3	(0303606300		Karachi	
4	4	4 Usman		4		030360620		Sialkot	
5	5	Hafe	ez	2	(0303606	1000	Lahore	•
	userID	card	cardNum						
1	1	132	1324327436569						
2	2	232	2324325423336						
3	3	232	232432543						
4	1	234	343243253436						
	cardNum		C	ardType	ID	PIN	expir	eDate	balance
1	132432	274365	7436569 3			1770	2022-07-01		43025.31
2	232432	254233	5423336 3			0234	2020-03-02		14425.62
3	232432	254365	66	1		1234	2019-02-06		34325.52
	222422	5666456		2		1200	202	1-02-05	24325.3
4	232432	20004							

	cardTyp	eID	name	des	cription		
1	1		Debit	Debit Spend Now, Pay Now		Now	
2	2		Credit	Sp	end Now, Pay la	ater	
3	3		Gift	Enj	joy		
	transld	tran	nsDate o		rdNum	amount	transType
1	1	20	2017-02-02		24327436569	500	1
2	2	20	18-02-03	2343243253436		3000	3
3	3	20	17-05-06		24325436566	2500	2
4	4	20	16-09-09	2324325436566		2000	1
5	5	2015-02-10		23	24325423336	6000	4
	transTypeID		typeNa	me	description		
1	1	1 Withdra		w	NULL		
2	2		Deposi	t	NULL		
3	3 Sched		Schedu	ıl	NULL		
4	4		Failed		NULL		



Task-I

- 1- List the card numbers of those cards that are not used for transaction. (Hint: IN)
- 2- List the name of the user who has maximum balance in his/her card (One person can have more than 1 card, check cards individually for max balance).
- 3- List the user names with their UserType name without using join.
- 4- List all the users made failed transactions.
- 5- List the **user** who has made maximum **transactions**.
- 6- List the **userTypes** of users who have **credit** cards, in the **descending** order according to the *count of cards*.
- 7- List the cardTypes along with the count of users. (In descending order according to count of users).
- 8- Give the **user** who has second maximum **balance**. (You may use Query 2).
- 9- List the UserTypes whose users have not made withdrawal transactions.