

### **National University of Computer and Emerging Sciences**

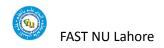


# In Lab 5

"Nested Queries"

## Database Systems Lab

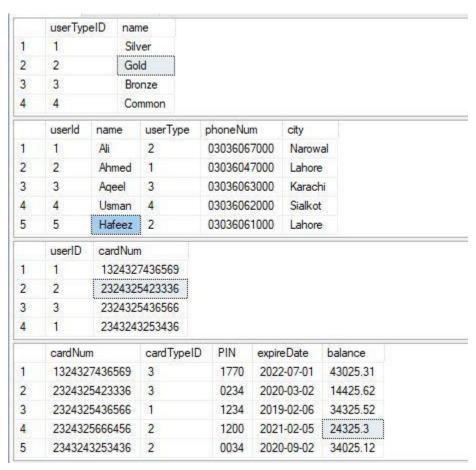
Course Instructor	
Lab Instructor (s)	
Section	
Semester	Sprig 2022



## Department of Computer Science FAST-NU, Lahore, Pakistan

### **Exercise:**

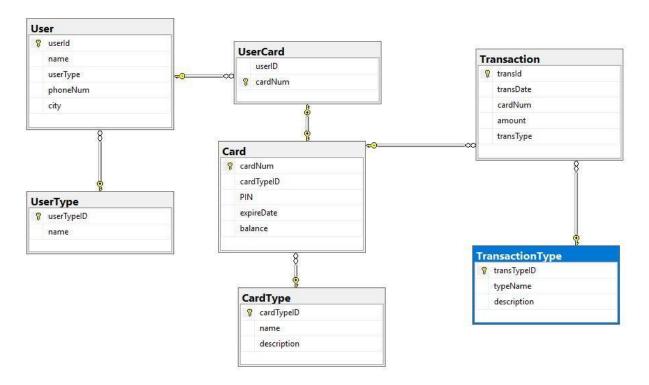
For this exercise use the following schema, the script to create this schema and populate data is given in ATM.SQL file.





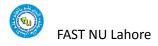
#### **FAST NU Lahore**

	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 trans		sDate	ca	rd Num	amount	transType
1	1	2017-02-02		1324327436569		500	1
2	2	2018-02-03		2343243253436		3000	3
3	3	2017-05-06 2016-09-09		2324325436566		2500	2
4	4			2324325436566	324325436566	2000	1
5	5	5 2015-02-10		23	324325423336	6000	4
	transTyp	eID	typeNa	me	description		
1	1		Withdra		NULL		
2	2	Deposit		t	NULL		
3	3		Schedul		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.