

**National Institute of Technology Calicut**  
**Department of Computer Science and Engineering**  
CS3095D DATABASE MANAGEMENT SYSTEMS LABORATORY  
S5/S7 B Tech - Monsoon Semester 2022

Mid-Term Exam 1	Part B (14 Marks)	Date: 7/10/2022
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**Evaluation- II- Set A**

Consider the following Schema and answer the questions that follow

ATM (ATM\_id, cash\_limit, address, B\_id)  
Bank (B\_id, B\_name)  
User (User\_id, User\_name, State, Country, Pin)  
User\_phone (User\_id, Ph\_no)  
Account (Acc\_no, Acc\_type, Balance, Br\_id)  
Branch (Br\_id, Br\_name, State, Country, Pin, B\_id)  
TXN (T\_id, T\_type, User\_id)  
Visits (VisitNo, ATM\_id, User\_id)  
Holds (User\_id, Acc\_no)

Answer the following,

1. Add an attribute “Number of Staff” to the “Branch” relation. [0.5]
2. Drop an attribute “PhoneNumber” from “User” relation. [0.5]
3. Write an SQL query to print the bank name is the highest order of their ATM cash limit [1]
4. Select the bank whose name does not start with ‘S’ [1]
5. Print the ATM id and Bank Name whose cash limit is more than 10000 [1]
6. Print the branch name of all the Kerala branches of South Indian Bank [1.5]
7. Write a query to print the name of all users who visited ATM id 1 and holds a joint account. [1.5]
8. Print the number of branches that SBI has in India using count() [1]
9. Please justify (using Queries) the following constraints with suitable relation example (1.5)  
CHECK      (ii) DEFAULT      (iii) FOREIGN KEY
10. Select the name of users that have ATM Card (holds an account) in both SBI and Canara Bank using UNION operation [1.5]
11. Print the number of cards issued by each bank using group by clause. Print the bank name along with the number [1.5]
12. Select the users whose number of transactions is less than 5 using having clause [1.5].