DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

MA611 – 2nd Semester MCA, 2024-2025 DATABASE SYSTEMS LAB

Assignment-5

- 1. Create the following tables with the following attributes and constraints on them.
 - a. Bank (bk code, bk name, bk address)
 - b. Branch (br id, br name, br address, bk code)
 - c. Customer (cust ID, cust name, phone no, address)
 - d. Account (acc no, acc type, balance, br id)
 - e. Customer Account (cust ID, acc no)
 - f. Loan (loan ID, loan type, amount, br id)
 - g. Customer Loan (cust ID, loan ID)
- 1. Create all the tables by defining primary key, foreign key and other appropriate constraints.
- 2. Insert atleast five records in each table.
- 3. List the details of all customers.
- 4. Find the cust ID and phone number of customer 'Ravi'.
- 5. Find the Address of all branches of br_01.
- 6. Find the details of Customer having ID 103.
- 7. List the account details having balance more than 10000.
- 8. List the account details of branch br 02.
- 9. List the loan details of branch br 01.
- 10. List the account details with their branch address.
- 11. List the customer details with their account details.
- 12. List the customer details having account type 'savings'.
- 13. List the customer details having vehicle loan.
- 14. List the branch names of all accounts.
- 15. List the customer details going to 'Surathkal' branch.
- 16. List the customers having loan account in 'MG Road' branch.
- 17. Find the customers having balance between 1000 to 10000.
- 18. Give a bonus of rupees 100 to customers having more than 10000 balance.
- 19. Deduct 50 rupees from customers having less than 500 rupees in balance.
- 20. Give the customer details having home loan.
- 21. Give the customer details having home loan in 'NITK' branch.

- 22. Add a column NOMINEE to the customer table with data type varchar (50).
- 23. List all the account numbers in ascending order of their balance.
- 24. Count the number of customers having account type savings.
- 25. Count the number of customers for each account type.
- 26. Find the total balance in Savings account.
- 27. Find the average balance of Current account.
- 28. Find the average balance for each account type.
- 29. Find the customer details having maximum balance.
- 30. Find the average amount for vehicle loan.
- 31. Find the average balance in each branch.