

Lab Assignment 1: Creation and Insertion in Banking Database.

Introduction to Databases (CSE 3151)

Programme: B.Tech. (CSE & CSIT) Semester: 6th

Course Learning Outcome	Program Outcomes	Taxonomy Level
CO2: Model SQL queries and able to develop a database application as per user requirements using SQL and database connectivity.	PO1,PO2, PO5	L2, L3

Database Description: A banking system maintains information about branches, customers, accounts, loans, and transactions. In this assignment, students will create tables and insert sample records.

Objective: To understand basic SQL commands for table creation (CREATE) and data insertion (INSERT) without using database constraints.

1. Create the following tables with their respective columns, data types and size:

Table Name	Columns	Datatypes	Size
BRANCH	BRANCH_CODE	VARCHAR	5
	BRANCH_NAME	VARCHAR	30
	CITY	VARCHAR	20

Table Name	Columns	Datatypes	Size
CUSTOMER	CUST_NO	VARCHAR	5
	CUST_NAME	VARCHAR	30
	ADDRESS	VARCHAR	40
	PHONE	NUMERIC	10

Table Name	Columns	Datatypes	Size
ACCOUNT	ACC_NO	VARCHAR	10
	CUST_NO	VARCHAR	5
	BRANCH_CODE	VARCHAR	5
	ACC_TYPE	VARCHAR	10
	BALANCE	NUMERIC	10

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Table Name	Columns	Datatypes	Size
LOAN	LOAN_NO	VARCHAR	10
	CUST_NO	VARCHAR	5
	BRANCH_CODE	VARCHAR	5
	AMOUNT	NUMERIC	10

Table Name	Columns	Datatypes	Size
TRANSACTION_DETAILS	TRANS_ID	VARCHAR	10
	ACC_NO	VARCHAR	10
	TRANS_TYPE	VARCHAR	10
	TRANS_AMOUNT	NUMERIC	10
	TRANS_DATE	DATE	-

2. Insert data into Branch table with the given data.

BRANCH_CODE	BRANCH_NAME	CITY
B001	Main Branch	Delhi
B002	City Branch	Mumbai
B003	Town Branch	Chennai
B004	Central Branch	Delhi
B005	Market Branch	Bengaluru

3. Insert data into Customer table with the given data.

CUST_NO	CUST_NAME	ADDRESS	PHONE
C001	Ankit Kumar	Delhi	9876543210
C002	Anjali Verma	Mumbai	9123456780
C003	Suresh Patel	Ahmedabad	9988776655
C004	Neha Sharma	Jaipur	9090909090
C005	Amit Singh	Lucknow	8899776655

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4. Insert data into Account table with the given data.

ACC_NO	CUST_NO	BRANCH_CODE	ACC_TYPE	BALANCE
A1001	C001	B001	Savings	25000
A1002	C002	B002	Current	40000
A1003	C003	B003	Savings	18000
A1004	C004	B004	Savings	32000
A1005	C005	B005	Current	50000

5. Insert data into Loan table with the given data.

LOAN_NO	CUST_NO	BRANCH_CODE	AMOUNT
L2001	C001	B001	150000
L2002	C002	B002	200000
L2003	C003	B003	120000
L2004	C004	B004	180000
L2005	C005	B005	250000

6. Insert data into Transaction Details table with the given data.

TRANS_ID	ACC_NO	TRANS_TYPE	TRANS_AMOUNT	TRANS_DATE
T001	A1001	Deposit	5000	2025-JAN-10
T002	A1002	Withdraw	3000	2025-JAN-12
T003	A1003	Deposit	7000	2025-OCT-15
T004	A1004	Withdraw	2000	2024-JAN-18
T005	A1005	Deposit	10000	2024-MAR-20