Laboratory Assignments
Subject: Database Management System
Subject code: CA3003

Assignment 4: Table creation using Database Constraints

Objective of this Assignment:

- To create table with proper integrity constraints.

1. Create the Tables for the following descriptions using the constraints as specified.

TABLE NAME-- CUSTOMER

COLUMN NAME	CONSTRAINT DESCRIPTION
CUST_NO	-PRIMARY KEY -MUST BE 5 CHARACTER LONG & START WITH LETTER 'C'
NAME	NOT NULL
PHONE_NO	
CITY	NOT NULL

TABLE NAME-- ACCOUNT

COLUMN NAME	CONSTRAINT DESCRIPTION
ACCOUNT_NO	-PRIMARY KEY -MUST BE 5 CHARACTER LONG & START WITH LETTER 'A'
TYPE	-TYPES- 'SB', 'FD', 'CA'
BALANCE	-MUST BE < 10000000
BRANCH_CODE	-FOREIGN KEY, REFERS TABLE *BRANCH*

TABLE NAME-- DEPOSITOR

COLUMN NAME	CONSTRAINT DESCRIPTION
CUST_NO	-FOREIGN KEY, REFERS TABLE CUSTOMER -PRIMARY KEY
ACCOUNT_NO	-FOREIGN KEY, REFERS TABLE *ACCOUNT* -*PRIMARY KEY*

TABLE NAME-- LOAN

COLUMN NAME	CONSTRAINT DESCRIPTION
LOAN-NO	-PRIMARY KEY -MUST BE 5 CHARACTER LONG & START WITH LETTER 'L'
CUST_NO	-FOREIGN KEY, REFERS TABLE *CUSTOMER*
AMOUNT	-MUST BE > 1000
BRANCH_CODE	-FOREIGN KEY, REFERS TABLE *BRANCH*

TABLE NAME-- BRANCH

COLUMN NAME	CONSTRAINT DESCRIPTION
BRANCH_CODE	-PRIMARY KEY
BRANCH_NAME	-NOT NULL
BRANCH_CITY	-ANY METRO CITY OF INDIA – DELHI, MUMBAI, KOLKATA, CHENNAI.

TABLE NAME- INSTALLMENT

COLUMN NAME	CONSTRAINT DESCRIPTION
INST_NO	-PRIMARY KEY -MUST BE<=10
LOAN_NO	-PRIMARY KEY -FOREIGN KEY, REFERS TABLE LOAN
INST_AMOUNT	-NOT NULL

2. Insert the records to the tables as specified:

CUSTOMER			
CUST_NO	NAME	PHONE_NO	CITY
C0001	RAJ ANAND SINGH	9861258466	DELHI
C0002	ANKITA SINGH	9879958651	BANGALORE
C0003	SOUMYA JHA	9885623344	MUMBAI
C0004	ABHIJIT MISHRA	9455845425	MUMBAI
C0005	YASH SARAF	9665854585	KOLKATA
C0006	SWAROOP RAY	9437855466	CHENNAI
C0007	SURYA NARAYAN	9937955212	GURGAON
C0008	PRANAV PRAVEEN	9336652441	PUNE
C0009	STUTI MISRA	7870266534	DELHI
C0010	ASLESHA TIWARI		MUMBAI

ACCOUNT

ACCOUNT_NO	TYPE	BALANCE	BRANCH_CODE
A0001	SB	200000	B003
A0002	SB	15000	B002
A0003	CA	850000	B004
A0004	CA	35000	B004
A0005	FD	28500	B005
A0006	FD	550000	B005
A0007	SB	48000	B001
A0008	SB	7200	B002
A0009	SB	18750	B003
A0010	FD	99000	B004

DEPOSITOR

CUST_NO	ACCOUNT_NO
C0003	A0001
C0004	A0001
C0004	A0002
C0006	A0003

C0006	A0004
C0001	A0005
C0002	A0005
C0010	A0006
C0009	A0007
C0008	A0008
C0007	A0009
C0006	A0010

LOAN

LOAN-NO	CUST_NO	AMOUNT	BRANCH_CODE
L0001	C0005	3000000	B006
L0002	C0001	50000	B005
L0003	C0002	8000000	B004
L0004	C0010	100000	B004
L0005	C0009	9500000	B005
L0006	C0008	25000	B006

BRANCH

BRANCH_CODE	BRANCH_NAME	BRANCH_CITY
B001	JANAKPURI BRANCH	DELHI
B002	CHANDNICHOWK BRANCH	DELHI
B003	JUHU BRANCH	MUMBAI
B004	ANDHERI BRANCH	MUMBAI
B005	SALTLAKE BRANCH	KOLKATA
B006	SRIRAMPURAM BRANCH	CHENNAI

INSTALLMENT

INST_NO	LOAN_NO	INST_AMOUNT
1	L0005	500000
1	L0002	10000
1	L0003	50000
1	L0004	20000
2	L0005	500000

1	L0006	3000
2	L0002	10000
3	L0002	10000
2	L0003	50000
2	L0004	20000