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**EMPLOYEE ID: 2608243**

**BATCH CODE:240**

**Project 4: Bank Management Service**

a. Create **Database Schemas** for following tables with the required constraints as provided. Create the table **Bank** with the following attributes,

* + Bank Name (Not Null)
  + Bank Code (Primary Key)
  + Address (Not Null)

b.Add some dummy data in the **Bank** table.

create table bank(

Bank\_Name varchar(100) not null,

Bank\_Code int primary key,

Bank\_Address varchar(100) not null);

insert into bank(Bank\_Name,Bank\_Code,Bank\_Address) values('SBI', 1001,

'Marathahalli, Banglore'), ('HDFC', 1002, 'kharadi, pune'), ('AXIS', 1003, 'kadapa,

Andrapradesh');

c. Create the table **Branch** with the following attributes,

* + Branch ID (Primary Key)
  + Branch Name (Unique Key)
  + Address (Not Null)
  + Bank Code (Foreign Key referencing Bank, add ON DELETE CASCADE constraint)

d. Add some dummy data in the **Branch** table.

create table branch(

Branch\_Id int primary key,

Branch\_Name varchar(100) unique,

Branch\_Address varchar(100) not null,

Bank\_Code int,

foreign key(Bank\_Code) references bank(Bank\_Code) on delete cascade);

insert into

branch(Branch\_Id,Branch\_Name,Branch\_Address,Bank\_Code)values(1,'marathahalli',

'Marathahalli, Banglore',1001), (2, 'kharadi', 'kharadi, pune', 1002), (3, 'kadapa','kadapa,

Andrapradesh',1003);

e. Create the table **Customer** with the following attributes,

* + Customer ID (Primary Key)
  + Name (Not Null)
  + Phone Number (Not Null)
  + Address (Not Null)

f.Add some dummy data in the **Customer** table.

create table customer(

Customer\_ID int primary key,

Customer\_Name varchar(100) not null,

cust\_phoneNumber varchar(200) not null,

cust\_address varchar(100) not null);

insert into customer(Customer\_ID,Customer\_Name,cust\_phoneNumber,cust\_address)

values(201, 'siva', '9988776655','Marathahalli, Banglore'), (202,'ishu', '9955664433',

'kharadi, pune'), (203, 'vaishu','9955664433','kadapa, Andrapradesh');

* 1. g.Create the table Accountwith the following attributes,
  2. Account Number (Primary Key)
  3. Account Type (Not Null)
  4. Balance (Not Null)
  5. Branch ID (Foreign Key referencing Branch, add ON UPDATE CASACDE constraint)
  6. h.Add some dummy data in the **Account** table.
  7. create table Account(
  8. Account\_Number int primary key,
  9. Account\_Type varchar(100) not null,
  10. balance decimal(7,2) not null,
  11. Branch\_Id int,
  12. foreign key(Branch\_Id) references branch(Branch\_Id) on update cascade);
  13. insert into Account(Account\_Number,Account\_Type,balance,Branch\_Id) values(2608243,
  14. 'savings', 50000.00, 1),(2608244,'dmat', 60000.00,2), (2608245,'savings', 40000.00,3);
  15. i.Create the table **Loan** with the following attributes,
  16. Loan ID (Primary Key)
  17. Loan Type(‘PL’,’HL’)
  18. Amount (Not Null)
  19. Branch ID (Foreign Key referencing Branch)
  20. j.Add some dummy data in the **Loan** table.
  21. create table Loan(
  22. Loan\_ID int primary key,
  23. Loan\_Type varchar(4) check (Loan\_Type in('pl','hl')),
  24. Amount decimal(7,2) not null,
  25. Branch\_Id int,
  26. foreign key(Branch\_Id) references branch(Branch\_Id ));
  27. insert into Loan(Loan\_ID,Loan\_Type,Amount,Branch\_Id) values (301, 'pl', 50000.00,1) (302,
  28. 'hl', 60000.00, 2), (303, 'hl', 70000.00,3);
  29. k.Write a Query to fetch the records of all the above tables.

select\* from bank;

select\* from branch;

select\* from customer;

select\*from Account;

select\* from Loan;

