

DBMS Lab - 'N' Batch 04.02.2026

1. Consider the following relations:

Street (name, location, city)

House (number, street name)

Lives (name, house number)

Apartment (apartment name, block number, name)

Define the above relations as tables in SQL making real world assumptions about the type of the fields. Define the primary keys and the foreign keys.

- (i) Get the names of persons who live in the street named 'Mahatma Gandhi'.
- (ii) Get the house numbers street wise.
- (iii) Get the numbers of houses which are not occupied
- (iv) Find the total number of apartment not in Chennai.
- (v) Display the name of lives residing in Godavari Apartment, B-Block.
- (vi) Find the owner name who have more than one apartment in Mumbai.
- (vii) Create a procedure to update name of the person who lives in 'A' block, "Amaravathi Apartment"

2. Consider the following relations

BOOK (Book_id, Title, Publisher_Name, Pub_Year)

BOOK_AUTHORS (Book_id, Author_Name)

PUBLISHER (Publisher_Name, Address, Phone)

BOOK_COPIES (Book_id, Branch_id, No-of_Copies)

BOOK_LENDING (Book_id, Branch_id, Card_No, Date_Out, Due_Date)

LIBRARY_BRANCH (Branch_id, Branch_Name, Address)

BORROWER (Card_No, Name, Address, Phone, Status)

Define the above relations as tables in SQL making real world assumptions about the type of the fields. Define the primary keys and the foreign keys.

- i. Retrieve names of all borrowers who do not have any books checked out.
- ii. Get the particulars of borrowers who have borrowed books from Jan 2019 to Mar 2019.
- iii. Delete the publishers who are all from Chennai.
- iv. For each library branch, retrieve the branch name and total number of books loaned out from that branch.
- v. For each book that is loaned out from Chromepet branch and whose Due_Date is today, retrieve the book Title, the borrower's name and the borrower's address.
- vi. How many copies of the book titled 'The Lost Tribe' are owned by each library branch?
- vii. Write a trigger to set the Status of borrowers to "back listed", if they have taken book but not returned even after three months.