

RDBMS FUNDAMENTALS

ASSIGNMENT 4:

Write SQL statements to CREATE a new database and tables that reflect the library schema you designed earlier. Use ALTER statements to modify the table structures and DROP statements to remove a redundant table.

CREATE NEW DATABASE

CREATE DATABASE Library;

USE Library;

CREATE TABLES :

CREATE TABLE Member (

MemberID NUMBER PRIMARY KEY,

Name VARCHAR(20) NOT NULL,

Address VARCHAR(50),

PhoneNumber VARCHAR(10) UNIQUE,

Email VARCHAR(20) UNIQUE NOT NULL

);

CREATE TABLE Category (

CategoryID NUMBER PRIMARY KEY,

CategoryName VARCHAR(50) NOT NULL UNIQUE

);

CREATE TABLE Book (

BookID INT PRIMARY KEY,

Title VARCHAR(20) NOT NULL,

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Author VARCHAR(20) NOT NULL,  
Publisher VARCHAR(20),  
YearOfPublication INT CHECK (YearOfPublication > 0),  
CategoryID REFERENCES Category(CategoryId)  
);
```

```
CREATE TABLE Employee (  
    EmployeeID INT PRIMARY KEY,  
    Name VARCHAR(20) NOT NULL,  
    Position VARCHAR(50),  
    Email VARCHAR(20) UNIQUE NOT NULL  
);
```

ALTER TABLES :

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ALTER TABLE Member  
ADD Age VARCHAR(5);
```

DROP COLUMN

```
ALTER TABLE Book  
DROP COLUMN Publisher;
```

DROP TABLE:

```
DROP TABLE Employee CASCADE CONSTRAINTS;
```