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**ADT23SOCB1509**

**Assignment-2**

**Database Schema:**

**Tables:**

1. **Book**

CREATE TABLE Book (

Book\_ID INT PRIMARY KEY,

Title VARCHAR(255),

Author VARCHAR(255),

Publisher VARCHAR(255),

Year\_Published INT

);

1. **Member**

CREATE TABLE Member (

Member\_ID INT PRIMARY KEY,

Name VARCHAR(100),

Membership\_Date DATE,

Address VARCHAR(255)

);

1. **Transaction**

CREATE TABLE Transaction (

Transaction\_ID INT PRIMARY KEY,

Member\_ID INT,

Book\_ID INT,

Issue\_Date DATE,

Return\_Date DATE,

FOREIGN KEY (Member\_ID) REFERENCES Member(Member\_ID),

FOREIGN KEY (Book\_ID) REFERENCES Book(Book\_ID)

);

**DDL Commands with Examples**

**1) Create Table**

Creating the **Book** table:

CREATE TABLE Book (

Book\_ID INT PRIMARY KEY,

Title VARCHAR(255),

Author VARCHAR(255),

Publisher VARCHAR(255),

Year\_Published INT

);

**2) Alter Table**

Adding a new column **Category** to the **Book** table:

ALTER TABLE Book ADD Category VARCHAR(100);

Modifying data type of **Year\_Published**:

ALTER TABLE Book MODIFY Year\_Published YEAR;

**3) Drop Table**

Deleting the **Transaction** table:

DROP TABLE Transaction;

**4) Truncate Table**

Removing all records from the **Member** table without deleting its structure:

TRUNCATE TABLE Member;

**5) Rename Table**

Renaming **Book** table to **Library\_Books**:

RENAME TABLE Book TO Library\_Books;