

CS232L - DATABASE MANAGEMENT SYSTEMS LAB

DATA SCIENCE

Lab 07

Instructor: Ma'am Abinta Date: 8-04-2025

Task:

A Library wants to implement a database system to manage the information about books. As a database designer, the company wants you to design the database schema to store details about.

Books (**isbn** VARCHAR(13) PRIMARY KEY, **title** VARCHAR(100) NOT NULL, **author** VARCHAR(100) NOT NULL, **publication_year** INTEGER CHECK (publication_year > 0), **price** NUMERIC CHECK (price >= 0))

INSERT FOLLOWING VALUES:

('978-1982127794', '1984', 'George Orwell', 1949, 9.99),

('978-0141187761', 'To Kill a Mockingbird', 'Harper Lee', 1960, 12.50),

('978-0061120084', 'To Kill a Mockingbird', 'Harper Lee', 1960, 5.00);

The company wants you to perform the following operations on the database using blocks for each query:

1. Retrieve the count of the books written by Harper Lee
2. Retrieve the names of the books published before 1970
3. Retrieve the prices of the books having ID 978-0141187761
4. Write a query to retrieve information about the books which has ID 978-1983126694 and display the output using IF THEN ELSE STATEMENT;
5. Write a query to display the price status of the books using case statement as
If (0<price<3.99) then price status = Average
If (4<price<7.99) then price status = Fine
If (8<price<10.99) then price status = Expensive
If (11<price<14.99) then price status = Very Expensive
6. Write a query to print the multiplication table of 3 using loop.