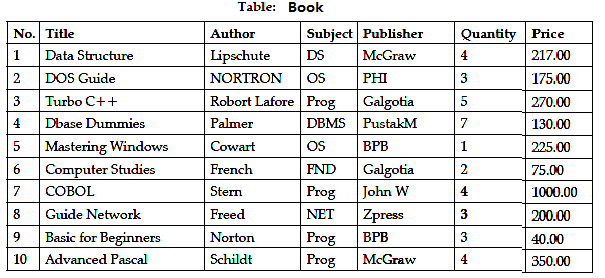
**Write SQL commands for the queries given from a to f and write the output of the SQL commands given in part g based on a table Book shown below:**



1 Write CREATE TABLE Script and INSERT STATEMENT for above data

2 Solve the following

(a) To display the title of all books with Price between 100 and 300.

(b) To display Title and Author of all the books having type Prog and published by BPB.

(c) To display the list of all the books with price more than 130 in ascending order of Qty.

(d) To display the list of all books whose quantity is less than 4.

(e) To display the publishers and the number of books of each book in the table.

(f) To insert a new book in the table LIBRARY.

(g) To increase the price of the book title ‘TURBO C++’ by Rs.30.

(h) To display the Title and Total Price of all Computer books. The Total Price is calculated as Price \* Qty.

(i) Write the output of the following:

(i) Select MIN(Price) from Library;

(ii) Select Sum(Price \* Qty) from Library where Qty > 3;

(iii) Select Avg(Price) from Library where Qty < 4;

(iv) Select Count(Distinct Publisher)

In the **book** table, add the columns quantity\_issued with default value 0

**Table: student**

**We can have student\_id also.**

|  |  |  |  |
| --- | --- | --- | --- |
| register\_number | full\_name | number\_of\_books\_allowed | number\_of\_books\_issued |
| S10110 | Rahul | 2 | 0 |
| S10120 | Stutee | 2 | 0 |
| S10130 | Logesh | 2 | 0 |
| S10140 | Ashish | 2 | 0 |

**Table: issue**

issue\_id, issue\_number, student\_id, book\_no, issue\_date, return\_date, fine\_amount

And conduct below events

issue\_book

return\_book

The event issue\_book allows the user to borrow book for reading. So quantity\_issued will be incremented and number\_of\_books\_issued have to be incremented.. At issue\_book we have to capture the issue\_date where return\_date is null and fine\_amount is 0.

Rule quantity\_issued < quantity

number\_of\_books\_issued < number\_of\_books\_allowed

The event return\_book allows the user to return the book after reading. quantity\_issued will be incremented and number\_of\_books\_issued have to be decremented. At return\_book we have to update the return\_date and fine\_amount is calculated. fine\_amount per late day is Rs20. If return\_date is (issue\_date + due\_number\_of\_days - 1) is less than return\_date there is no fine. Otherwise each extra day is the fine day and multiply Rs20 with number of late days to update into fine\_amount.

Rule quantity\_issued > 0

number\_of\_books\_issued > 0