Data Science On-Ramp Course: SQL

Assignment 5: Queries in SQL (2)

Problem: Consider the MEMBERS, BOOKS and RESERVES tables as shown below,

MEMBERS

M_ID	Name	Designation	Age
401	James	Student	18
402	Bryant	Teacher	31
403	Johnson	Teacher	29
404	Robertson	NULL	25
405	Anthony	Student	22

RESERVES

M_ID	B_ID	Date
401	A102	7/7/2016
401	B222	5/30/2016
402	A102	3/15/2016
403	A103	7/7/2016
405	D568	6/8/2016
405	B222	7/10/2016

BOOKS

B_ID	B_Title	B_Author	B_Price($)
A102	Game of Thrones	George Martin	100
A103	Harry Potter	Rowling	120
B222	Lord of the Rings	Tolkien	85
D568	Dexter	Lindsay	NULL
C420	Hobbit	Tolkien	80

1) Find the ID and Names of the members who have reserved the book “Game of Thrones” or “Lord of the Rings”.
2) Find the ID, Name and reserved date of the members who reserved both “Lord of the Rings” and “Dexter”.
3) Find the unique books that have been reserved.
4) Find the details of the members who have reserved the book B222 but not A102.
5) Find the details of the members who have reserved a book with a definite price.
6) Find the authors of the books reserved by teachers.
7) Find the details of the members who have not reserved any book.
8) Create a view which captures names of the authors, their book titles and the corresponding prices. Can you update this view? If yes, increase the price of “Game of Thrones” by 10 percent.
9) Create a view which captures the details of the books reserved after June 2016. Can you update this view? If yes, increase the cost of all the reserved books by $10.
10) Delete both the views created above and display the contents of the tables post deletion.

NOTE: Create Aliases for all the queries to make the code more readable.