MIS292
Chapter 13 Homework
Views
Alcove Books

Note: You will use your personal student database for this exercise. I have created the following tables in your database:

ALCOVE_AUTHOR

AUTHORID	FName	LName	BirthDate	DeathDate	Nationality
1	J.K.	Rowling	1965-07-31	NULL	English
2	J.R.R.	Tolkien	1892-01-03	1973-09-03	English
3	George R.R.	Martin	1948-09-20	NULL	American
4	C.S.	Lewis	1898-11-29	1963-11-22	Irish
5	L. Frank	Baum	1856-05-15	1919-05-06	American
6	Lev	Grossman	1969-06-26	NULL	American
7	Neil	Gaiman	1960-11-10	NULL	English

ALCOVE_BOOK

BOOKID	Title	AUTHORID	PubDate	Price	InStock
1	The Wonderful World of Oz	5	1900	14.95	25
2	The Marvelous Land of Oz	5	1904	12.95	20
3	Dorothy and the Wizard in Oz	5	1908	12.95	18
4	The Patchwork Girl of Oz	5	1913	9.95	10
5	Harry Potter and the Sorcerer's Stone	1	1998	9.95	150
6	Harry Potter and the Chamber of Secrets	1	1999	9.95	138
7	Harry Potter and the Prisoner of Azkaban	1	1999	9.95	125
8	Harry Potter and the Goblet of Fire	1	2000	14.95	195
9	Harry Potter and the Order of the Phoenix	1	2003	14.95	186
10	Harry Potter and the Half-Blood Prince	1	2005	14.95	159
11	Harry Potter and the Deathly Hallows	1	2007	16.95	211
12	The Hobbit	2	1937	12.95	254
13	The Fellowship of the Ring	2	1954	16.95	112
14	The Two Towers	2	1954	12.95	89
15	The Return of the King	2	1955	12.95	96
16	A Game of Thrones	3	1996	12.95	250
17	A Clash of Kings	3	1998	12.95	230
18	A Storm of Swords	3	2000	12.95	210
19	A Feast for Crows	3	2005	12.95	178
20	A Dance with Dragons	3	2011	16.95	280
21	The Magicians	6	2009	12.95	31
22	The Magician King	6	2011	16.95	42
23	The Lion, the Witch, and the Wardrobe	4	1950	9.95	201
24	Prince Caspian	4	1951	9.95	54
25	The Voyage of the Dawn Treader	4	1952	9.95	65

Tasks:

1. Create a view called just_oz that will display only books containing the word 'Oz' in the title. Display all columns.

2. Create a view called GoT that will display all books by George RR Martin. Pretend that you do not know Martin's author ID, in which case you'll have to join the ALCOVE_BOOK ALCOVE_AUTHOR tables and query on Martin's name. You may use explicit or implicit join syntax. When you select from the view, results should look like this:

BOOKID	Title	PubDate	FName	LName	Price	InStock
16	A Game of Thrones	1996	George R.R.	Martin	12.95	250
17	A Clash of Kings	1998	George R.R.	Martin	12.95	230
18	A Storm of Swords	2000	George R.R.	Martin	12.95	210
19	A Feast for Crows	2005	George R.R.	Martin	12.95	178
20	A Dance with Dragons	2011	George R.R.	Martin	16.95	280

3. Write a SELECT statement against the view you created in step 2. Display all columns and sort descending according to PubDate.
4. Create a view called ALL_DATA which will display the BookID, Title, PubDate, Price, InStock, author's first and last names, nationality, and birth and death dates. You may use explicit or implicit join syntax.
5. Create a view of the ALL_DATA view to display only living authors. Call this new view Books_by_Living_Authors.
6. Create a view called View_by_Series which organizes the books in the ALCOVE_BOOK table by series (Note: this is a UNION query). Join to show the authors' *concatenated* names (simply, FName + LName). When the view is queried, the results should look like this:

SeriesName	Title	Author	PubDate	Price	InStock
Harry Potter	Harry Potter and the Chamber of Secrets	J.K.Rowling	1999	9.95	138
Harry Potter	Harry Potter and the Deathly Hallows	J.K.Rowling	2007	16.95	211
Harry Potter	Harry Potter and the Goblet of Fire	J.K.Rowling	2000	14.95	195
Harry Potter	Harry Potter and the Half-Blood Prince	J.K.Rowling	2005	14.95	159
Harry Potter	Harry Potter and the Order of the Phoenix	J.K.Rowling	2003	14.95	186
Harry Potter	Harry Potter and the Prisoner of Azkaban	J.K.Rowling	1999	9.95	125
Harry Potter	Harry Potter and the Sorcerer's Stone	J.K.Rowling	1998	9.95	150
Middle Earth	The Fellowship of the Ring	J.R.R.Tolkien	1954	16.95	112
Middle Earth	The Hobbit	J.R.R.Tolkien	1937	12.95	254
Middle Earth	The Return of the King	J.R.R.Tolkien	1955	12.95	96
Middle Earth	The Two Towers	J.R.R.Tolkien	1954	12.95	89
Narnia	Prince Caspian	C.S.Lewis	1951	9.95	54
Narnia	The Lion, the Witch, and the Wardrobe	C.S.Lewis	1950	9.95	201
Narnia	The Voyage of the Dawn Treader	C.S.Lewis	1952	9.95	65
Oz	Dorothy and the Wizard in Oz	L. FrankBaum	1908	12.95	18
Oz	The Marvelous Land of Oz	L. FrankBaum	1904	12.95	20
Oz	The Patchwork Girl of Oz	L. FrankBaum	1913	9.95	10
Oz	The Wonderful World of Oz	L. FrankBaum	1900	14.95	25
Song of Ice and Fire	A Clash of Kings	George R.R.Martin	1998	12.95	230
Song of Ice and Fire	A Dance with Dragons	George R.R.Martin	2011	16.95	280
Song of Ice and Fire	A Feast for Crows	George R.R.Martin	2005	12.95	178
Song of Ice and Fire	A Game of Thrones	George R.R.Martin	1996	12.95	250
Song of Ice and Fire	A Storm of Swords	George R.R.Martin	2000	12.95	210
The Magicians	The Magician King	LevGrossman	2011	16.95	42
The Magicians	The Magicians	LevGrossman	2009	12.95	31

7. Create a view called Sale_View that displays the following data, including a 10% price deduction on all books. Format your sale price to two decimal places.

BookID	Title	Author	PubDate	InStock	Price	SalePrice
1	The Wonderful World of Oz	L. FrankBaum	1900	25	14.95	13.46
2	The Marvelous Land of Oz	L. FrankBaum	1904	20	12.95	11.66
3	Dorothy and the Wizard in Oz	L. FrankBaum	1908	18	12.95	11.66
4	The Patchwork Girl of Oz	L. FrankBaum	1913	10	9.95	8.96
5	Harry Potter and the Sorcerer's Stone	J.K.Rowling	1998	150	9.95	8.96
6	Harry Potter and the Chamber of Secrets	J.K.Rowling	1999	138	9.95	8.96
7	Harry Potter and the Prisoner of Azkaban	J.K.Rowling	1999	125	9.95	8.96
8	Harry Potter and the Goblet of Fire	J.K.Rowling	2000	195	14.95	13.46

8. Create a view called Low_Price_Books that will display all books that are below average cost. Use a subquery to make this happen. Note: this is not a join. Just display all columns (*) from ALCOVE_BOOK. (17 rows returned)

9. Create a view called Low_Price_Per_Author which will display books that are below average price *for their author*. Use a correlated subquery to make this happen. (12 rows returned)

10. Write statements to drop all eight views created in this exercise.