

CPRG 250 Lab Module 4 Part 4 Single Row Functions

Create the SQL script for the following questions using the JustLee Books database. Create a spool file that includes all of your SQL commands along with the results. Submit the script AND spool file via D2L.

1. Add the following lines to your script:

set echo on set linesize 132 set pagesize 66

2. DISPLAY the last names of authors, the title of all books they have published, date published and final price. Format the date published as: *January 1, 2014*. The final price of each book is the retail price – discounts, be careful here as the DISCOUNT value may be NULL. Sort the book title. You can use the following COLUMN command to limit the width of the publication date column:

COLUMN "Pub Date" FORMAT A20

do a:

CLEAR COLUMNS

after the query to clear out the column width settings.

Format as shown below:

Surname	Book Title	Pub Date	Final Price
Surname Robinson Porter Smith Kzochsky Baker Peterson Austin Adams Jones White White Austin Smith White Baker Robinson Fields Jones White	Book Title Big Bear And Little Dove Bodybuild In 10 Minutes A Day Bodybuild In 10 Minutes A Day Building A Car With Toothpicks Cooking With Mushrooms Database Implementation Database Implementation Database Implementation E-Business The Easy Way Handcranked Computers Holy Grail Of Oracle How To Get Faster Pizza How To Manage The Manager Painless Child-Rearing Painless Child-Rearing Revenge Of Mickey Shortest Poems	November 8, 2005 January 21, 2005 January 21, 2005	30.95 56.95 19.95 55.95 55.95 55.95 54.5 25 25 72.15
Smith	The Wok Way To Cook	September 11, 2004	
20	C4-4		

3. Typically the publisher reviews the success of a book exactly six months after it is published. Print a report showing all book titles, the published date, and review date. Sort by book title. Headings on the columns should be "Title", "Date Published" and "Review Date". Use the COLUMN command to make the columns wide enough to display the headers correctly.

COLUMN "colname" FORMAT A20

do a:

CLEAR COLUMNS

after the query to clear out the column width settings.

Book Title	Date Published	Review Date
Big Bear And Little Dove	08-NOV-05	08-MAY-06
Bodybuild In 10 Minutes A Day		21 - JUL - 05
Building A Car With Toothpicks		18-SEP-06
Cooking With Mushrooms	28-FEB-04	28-AUG-04
Database Implementation	04-JUN-03	04-DEC-03
	01-MAR-06	01-SEP-06
Handcranked Computers	21 - JAN - 05	21 - JUL - 05
Holy Grail Of Oracle	31-DEC-05	30-JUN-06
How To Get Faster Pizza	11-NOV-06	11-MAY-07
How To Manage The Manager	09-MAY-03	09-N0V-03
Painless Child-Rearing	17-JUL-04	17-JAN-05
Revenge Of Mickey	14-DEC-05	14-JUN-06
Shortest Poems	01-MAY-05	01-NOV-05
The Wok Way To Cook	11-SEP-04	11-MAR-05

4. Produce a profit report of all books. The price of a book is 'retail-discount', if the discount price is null substitute in a value of 0 (consider using NVL). Notice that all output is formatted to two digits of precision (consider using TO_CHAR). Include the headings shown in the report below. Sort by highest profit book first and lowest profit book last. Use single row functions to format the output (Do NOT use the SQL*PLUS COLUMN command to format the output columns).

Sample profit calculation: retail = \$33.95 discount = \$2.00 cost = \$15.40 final price = retail - discount = 33.95 - 2 = 31.95 \$ profit = (31.95-15.40) = \$16.55 % profit = 16.55/15.40*100 = 107.47%

Book Title		Price	Cost	% Profit
How To Manage Th Shortest Poems Database Impleme Painless Child-R Big Bear And Lit Bodybuild In 10 Cooking With Mus How To Get Faste Revenge Of Micke Holy Grail Of Or The Wok Way To C	ntation earing tle Dove Minutes A Day hrooms r Pizza y acle	31.95 39.95 55.95 85.45 8.95 30.95 19.95 28.45 22.00 72.15 28.75	15.40 21.85 31.40 48.00 5.32 18.75 12.50 17.85 14.20 47.25	107.47 82.84 78.18 78.02 68.23 65.07 59.60 59.38 54.93
Building A Car W E-Business The E Handcranked Comp	ith Toothpicks asy Way		37.80 37.90	50.66

5. Produce a Margin Report for the JustLee Bookstore. The % margin of a book is:

(Retail price – cost price)/cost price * 100.0

The Margin Report is based on the cost and retail price and does NOT include the discount. Do not use the discount column in the % margin calculation.

The pricing structure is based on the following logic:

if there is a discount then the pricing structure is 'Discounted, will NOT be restocked'.

Else if margin >= 60 then the pricing structure is 'Very High Profit'

Else if margin >= 30 then the pricing structure is 'High Profit'

Else if margin >= 0 then the pricing structure is 'Loss Leader'

Sort by title. Use TO_CHAR to format the 'Margin' and 'Discount' columns, use CASE to manage the 'Pricing Structure' column. Sort by book title. The following is the expected output:

Book Title	Margin	Discount	Pricing Structure
Big Bear And Little Dove	68.23		Very high profit
Bodybuild In 10 Minutes A Day	65.07		Very high profit
Building A Car With Toothpicks	58.60	3.00	Discounted, will NOT be restocked
Cooking With Mushrooms	59.60		High profit
Database Implementation	78.18		Very high profit
E-Business The Easy Way	43.80		High profit
Handcranked Computers	14.68		Loss Leader
Holy Grail Of Oracle	60.74	3,80	Discounted, will NOT be restocked
How To Get Faster Pizza	67.79	1.50	Discounted, will NOT be restocked
How To Manage The Manager	107.47		Very high profit
Painless Child-Rearing	87.40	4.50	Discounted, will NOT be restocked
Revenge Of Mickey	54.93		High profit
Shortest Poems	82.84		Very high profit
The Wok Way To Cook	51.32		High profit