

Due Date: Tuesday April 15, 2014 11:00 PM
 Points: 35 points max
 Turn In: The script and pool files turned in via the assignment drop box

General Directions

Use the books databases.

These tasks focus on the use of Subqueries. Consequently, you must use subqueries to solve the problems. In many cases you could solve the task without the use of subqueries- but that will not earn any credit for the assignment.

Follow the same list of general rules as for Assignment 11 with one exception.

You may use correlated subqueries; with a correlated subquery there will be a join between a table in a subquery and a table in an outer query with the join condition being expressed in the Where clause. This does not mean that you can use joins in general- only the join used to create a correlated subquery. You are not required to use correlated subqueries if you find another way to do the task.

Each query that uses a join - other than the correlation join- will earn no points.

Tasks

Task 01: For each customer in the customers table who lives in New Jersey (NJ) or in Massachusetts (MA), display their id, last name and the number of orders they have. Sort by the customer id.

cust_id	cust_name_last	number of orders
200368	Blake	45
202958	Denver	0
208950	Adams	102

Task 02: Use an Exists query to display the customer id and last name for any customer who ordered a book in each of the last three months of the previous year. Sort by the customer id.

Task 03: Use an Exists query to display the author information for authors who have more than one book but for whom we have no book sales. Sort by the author id.

author_name_first	author_name_last	author_id
Mark	Gersten	G1234
Susan	Haldeson	H2234

Task 04: We want to find any books which cover exactly two of the different sql systems using the topic ids 'SSRV', 'ORA', 'MySQL'
 For example, the book could have a topic of SSRV and a topic of ORA, but not MySQL. Any two of these topics is sufficient to pass our filter. Display the id and title of the book(s) that meet this test. Remember you may not use the set operators.

Task 05: For each order placed in the second quarter of the current year, display the following pieces of data:
 order date
 order id
 customer id

customer last name - use an alias of customer

total number of books purchased (use the quantity) on that order- use an alias of NumberBooks

total amount due for that order - use an alias of OrderCost

Task 06: You may have noticed data in the orders table such as the rows below where we have one order (order_id 33034) where the same book (book_id 1619) occurs more than once. This is allowed because the pk for this table is (order_id,order_line)

This is possible table data

order_id	order_line	book_id	quantity	order_price
33034	1	1619	1	29.99
33034	2	6789	1	25.95
33034	3	1619	5	15.95

Write the query to display the customer id and last name for any customer who ordered the same book more than once on an order.

The query displays cust id and last name; the query does not display the order details.

Sample Run

cust_id	cust_name_last
332447	Wilson