

SQL Assignment 4

INFO 308

1. Determine the profit of each book sold to Jake Lucas, using the actual price the customer paid (not the book's regular retail price). Sort the results by order date. If more than one book was ordered, sort the results by profit amount in descending order. Perform the search using the customer name, not the customer number. You need to use four tables: customers, orders, orderitems, and books.

Answer:

Code –

```
SELECT o.orderdate, b.title, (oi.paideach - b.cost) AS Profit FROM customers c, orders o, orderitems oi, books b WHERE c.FirstName = 'JAKE' AND c.LastName = 'LUCAS' AND c.CustomerID = o.CustomerID AND oi.OrderID = o.OrderID AND oi.ISBN = b.ISBN ORDER BY Profit DESC, OrderDate
```

Query –

orderdate	title	Profit
2009-03-31	PAINLESS CHILD-REARING	37.45
2009-04-03	PAINLESS CHILD-REARING	37.45
2009-03-31	HOW TO MANAGE THE MANAGER	16.55

2. What gift will a customer who orders the book Shortest Poems receive? Use the actual book retail value to determine the gift. You need to use two tables: books and promotion.

Answer:

Traditional Approach:

Code –

```
SELECT p.Gift FROM books b, promotion p WHERE retail BETWEEN p.Minretail AND p.Maxretail AND b.Title = 'SHORTEST POEMS'
```

Query –

Gift
BOOK COVER

Join Approach:

Code –

```
SELECT p.Gift FROM books b JOIN promotion p ON retail BETWEEN p.Minretail AND p.Maxretail WHERE b.Title = 'SHORTEST POEMS'
```

Query -

Gift
BOOK COVER