

Part I

Ch. 12-4

```
SQL> SELECT order#, TO_CHAR(SUM(quantity * paideach), '$9999999.99')
Total_Amount
2  FROM orderitems
3  GROUP BY order#
4  HAVING SUM(quantity * paideach) > (SELECT SUM(quantity * paideach)
5  FROM orderitems
6  WHERE order# = 1008)
7  ORDER BY 1, 2 DESC;
```

ORDER#	TOTAL_AMOUNT
1001	\$117.40
1002	\$111.90
1003	\$106.85
1004	\$170.90
1005	\$39.95
1006	\$54.50
1007	\$335.85
1009	\$41.95
1010	\$55.95
1011	\$85.45
1012	\$166.40
1013	\$55.95
1014	\$44.00
1016	\$85.45
1018	\$75.90

15 rows selected.

Ch. 12-5

```
SQL> SELECT lname||', '||fname Author
2  FROM bookauthor JOIN author USING(authorid)
3  WHERE isbn IN
4  (SELECT isbn FROM orderitems
5  GROUP BY isbn HAVING COUNT(*) = (SELECT MAX(COUNT(*))
6  FROM orderitems
7  GROUP BY isbn));
```

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Ch. 12-9

```
SQL> SELECT COUNT(DISTINCT customer#) NUM_Customers
```

```

2 FROM orders JOIN orderitems USING(order#)
3 WHERE isbn IN
4 (SELECT isbn FROM orderitems JOIN bookauthor USING (isbn)
5 JOIN author USING(authorid)
6 WHERE UPPER(lname)= 'AUSTIN'
7 AND UPPER(fname) = 'JAMES');

```

NUM_CUSTOMERS

5

Part II

Q.1

```

SQL> SELECT Category, title, TO_CHAR(cost, '$9999.99') COST
2 FROM books b1
3 WHERE COST = (SELECT MAX(COST) FROM books b2
4 WHERE b2.category = b1.category)
5 ORDER BY cost DESC;

```

CATEGORY	TITLE	COST
-----	-----	-----
FAMILY LIFE	PAINLESS CHILD-REARING	\$48.00
COMPUTER	HOLY GRAIL OF ORACLE	\$47.25
CHILDREN	BUILDING A CAR WITH TOOTHPICKS	\$37.80
LITERATURE	SHORTEST POEMS	\$21.85
COOKING	THE WOK WAY TO COOK	\$19.00
FITNESS	BODYBUILD IN 10 MINUTES A DAY	\$18.75
SELF HELP	HOW TO GET FASTER PIZZA	\$17.85
BUSINESS	HOW TO MANAGE THE MANAGER	\$15.40

8 rows selected.

Q.2

```

SQL> SELECT Rank() OVER (ORDER BY profit DESC)RANK, CATEGORY,
2 TO_CHAR(profit, '$999.99') PROFIT
3 FROM (SELECT category,nvl(sum(quantity*(paideach-cost)),0) profit
4 FROM books left JOIN orderitems USING(isbn)
5 GROUP BY category);

```

RANK	CATEGORY	PROFIT
-----	-----	-----
1	COMPUTER	\$286.15
2	FAMILY LIFE	\$263.70
3	COOKING	\$59.60
4	LITERATURE	\$18.10
5	BUSINESS	\$16.55
6	CHILDREN	\$14.52

7	FITNESS	\$12.20
8	SELF HELP	\$.00

8 rows selected.

Q.3

```
SQL> SELECT*
  2  FROM (SELECT customers.customer#||': '||lastname|| ', ' ||firstname
Customer,
  3  TO_CHAR(SUM(PaidEach * Quantity), '$9999.99') Total,
  4  RANK () OVER (ORDER BY SUM(PaidEach * Quantity) DESC) RANK
  5  FROM Customers JOIN Orders ON
  6  Customers.Customer# = Orders.Customer#
  7  JOIN OrderItems ON
  8  Orders.Order# = OrderItems.Order#
  9  GROUP BY Customers.Customer#, Customers.FirstName, Customers.LastName)
 10  WHERE RANK <= 10;
```

CUSTOMER	TOTAL	RANK
1007: GIANA, TAMMY	\$379.85	1
1010: LUCAS, JAKE	\$202.85	2
1020: FALAH, KENNETH	\$190.85	3
1001: MORALES, BONITA	\$182.75	4
1017: NELSON, BECCA	\$166.40	5
1003: SMITH, LEILA	\$139.95	6
1011: MCGOVERN, REESE	\$111.90	7
1018: MONTIASA, GREG	\$61.95	8
1005: GIRARD, CINDY	\$61.90	9
1019: SMITH, JENNIFER	\$55.95	10
1014: LEE, JASMINE	\$55.95	10

11 rows selected.

Q.5-a

```
SQL> ALTER TABLE Promotion
  2  ADD (Value Number(2));
```

Table altered.

```
SQL> UPDATE promotion
  2  SET value = CASE UPPER(Gift)
  3  WHEN 'BOOKMARKER' THEN 1
  4  WHEN 'BOOK LABELS' THEN 2
  5  WHEN 'BOOK COVER' THEN 3
  6  WHEN 'FREE SHIPPING' THEN 15
  7  END;
```

4 rows updated.

Q.5-b

```
SQL> SELECT Gift, TO_CHAR(MINRETAIL, '$99999.99') AS Minretail,  
2 TO_CHAR(MAXRETAIL, '$9999.99') AS Maxretail, VALUE  
3 FROM Promotion;
```

GIFT	MINRETAIL	MAXRETAIL	VALUE
-----	-----	-----	-----
BOOKMARKER	\$.00	\$12.00	1
BOOK LABELS	\$12.01	\$25.00	2
BOOK COVER	\$25.01	\$56.00	3
FREE SHIPPING	\$56.01	\$999.99	15