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));

AUTHOR
----------------------
BAKER, JACK
```

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
```