Part 1

**4.**

SELECT order#, TO\_CHAR(SUM(quantity \* paideach), '$999.99') AS " Total Due"

FROM orderitems

GROUP BY order#

HAVING SUM(quantity \* paideach) >

(SELECT SUM(quantity \* paideach)

FROM orderitems

WHERE order# = 1008);

ORDER# Total Due

------------- ------------

1003 $106.85

1009 $41.95

1011 $85.45

1013 $55.95

1016 $85.45

1006 $54.50

1001 $117.40

1002 $111.90

1007 $335.85

1004 $170.90

1010 $55.95

1005 $39.95

1014 $44.00

1012 $166.40

1018 $75.90

15 rows selected.

**5.**

SELECT AuthorID || ': ' || INITCAP(Fname) || ' ' || INITCAP (Lname) AS "Author"

FROM author

JOIN bookauthor

USING (AuthorID)

WHERE isbn =

(SELECT isbn

FROM orderitems

GROUP BY isbn

HAVING COUNT(\*) =

(SELECT MAX(COUNT(\*))

FROM orderitems

GROUP BY isbn));

Author

---------------------------

B100: Jack Baker

**9.**

SELECT COUNT(DISTINCT c.customer#) AS "Number of Customers"

FROM customers c, orders o, orderitems oi

WHERE o.order# = oi.order#

AND c.customer# = o.customer#

AND isbn IN

(SELECT isbn

FROM author

JOIN bookauthor

USING (authorid)

WHERE Lname = 'AUSTIN'

AND Fname = 'JAMES');

Number of Customers

-------------------

5

Part 2

**1.**

SELECT b.Title, TO\_CHAR(b.Cost, '$999.99') As "COST", category

FROM BOOKS b

WHERE b.Cost >= ALL(SELECT b1.Cost

FROM BOOKS b1

WHERE b.Category = b1.Category);

TITLE COST CATEGORY

------------------------------------------------------ -------- ------------

BODYBUILD IN 10 MINUTES A DAY $18.75 FITNESS

BUILDING A CAR WITH TOOTHPICKS $37.80 CHILDREN

HOLY GRAIL OF ORACLE $47.25 COMPUTER

PAINLESS CHILD-REARING $48.00 FAMILY LIFE

THE WOK WAY TO COOK $19.00 COOKING

HOW TO GET FASTER PIZZA $17.85 SELF HELP

HOW TO MANAGE THE MANAGER $15.40 BUSINESS

SHORTEST POEMS $21.85 LITERATURE

8 rows selected.

**2.**

SELECT Category,

TO\_CHAR(SUM((Paideach - Cost) \* Quantity),'$999.99') AS "Profit",

RANK() OVER (ORDER BY SUM((paideach - cost)\*quantity) DESC) RANK

FROM ORDERITEMS NATURAL JOIN BOOKS

GROUP BY Category;

CATEGORY Profit RANK

----------------- -------- ----------

COMPUTER $286.15 1

FAMILY LIFE $263.70 2

COOKING $59.60 3

LITERATURE $18.10 4

BUSINESS $16.55 5

CHILDREN $14.52 6

FITNESS $12.20 7

7 rows selected.

**3.**

SELECT \*

FROM

(SELECT Customer# || ': ' || INITCAP(Firstname) || ' ' || INITCAP (Lastname)

AS "Customer",

TO\_CHAR(SUM(Paideach\*Quantity) ,'$999.99') AS "Cost",

RANK() OVER (ORDER BY SUM(paideach \* quantity) DESC) RANK

FROM CUSTOMERS NATURAL JOIN ORDERS NATURAL JOIN ORDERITEMS

GROUP BY Customer#, Firstname, Lastname)

WHERE rank <= 10;

Customer Cost RANK

--------------------------------------------------------------- -------- ----------

1007: Tammy Giana $379.85 1

1010: Jake Lucas $202.85 2

1020: Kenneth Falah $190.85 3

1001: Bonita Morales $182.75 4

1017: Becca Nelson $166.40 5

1003: Leila Smith $139.95 6

1011: Reese Mcgovern $111.90 7

1018: Greg Montiasa $61.95 8

1005: Cindy Girard $61.90 9

1019: Jennifer Smith $55.95 10

1014: Jasmine Lee $55.95 10

11 rows selected.

**5.**

a)

ALTER TABLE promotion

ADD (value NUMBER(4));

Table PROMOTION altered.

UPDATE promotion

SET value = (CASE

WHEN gift = 'BOOKMARKER' THEN 1

WHEN gift = 'BOOK LABELS' THEN 2

WHEN gift = 'BOOK COVER' THEN 3

WHEN gift = 'FREE SHIPPING' THEN 15

END)

WHERE gift IN ('BOOKMARKER', 'BOOK LABELS', 'BOOK COVER', 'FREE SHIPPING');

4 rows updated.

b)

SELECT gift AS "Gift",

TO\_CHAR(minretail, '$99999.99') AS "Min Retail" ,

TO\_CHAR(maxretail, '$99999.99') AS "Max Retail",

value AS "Value"

FROM promotion;

Gift Min Retail Max Retail 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