

Part I

Chapter 10:

Q.3

```
SQL> SELECT title, TO_CHAR(quantity*(paideach-cost), '$999.99') "Profit"
  2  FROM books JOIN orderitems USING(isbn)
  3  WHERE order# = 1002;
```

TITLE	Profit
-----	-----
DATABASE IMPLEMENTATION	\$49.10

Q.4

```
SQL> SELECT title, ROUND((retail-cost)/cost*100,0)||'%' AS "Percentage of Markup"
  2  FROM books;
```

TITLE	Percentage of Markup
-----	-----
BODYBUILD IN 10 MINUTES A DAY	65%
REVENGE OF MICKEY	55%
BUILDING A CAR WITH TOOTHPICKS	59%
DATABASE IMPLEMENTATION	78%
COOKING WITH MUSHROOMS	60%
HOLY GRAIL OF ORACLE	61%
HANDCRANKED COMPUTERS	15%
E-BUSINESS THE EASY WAY	44%
PAINLESS CHILD-REARING	87%
THE WOK WAY TO COOK	51%
BIG BEAR AND LITTLE DOVE	68%
HOW TO GET FASTER PIZZA	68%
HOW TO MANAGE THE MANAGER	107%
SHORTEST POEMS	83%

14 rows selected.

Q.5

```
SQL> SELECT TO_CHAR(CURRENT_DATE, 'DAY, HH:MI:SS') AS "CURRENT DAY AND TIME"
  2  FROM dual;
```

CURRENT DAY AND TIME

WEDNESDAY, 10:05:20

Q.8

```
SQL> SELECT title, pubdate, SYSDATE,
2 TRUNC(MONTHS_BETWEEN(SYSDATE, pubdate),0)Age
3 FROM books;
```

TITLE	PUBDATE	SYSDATE	AGE
-----	-----	-----	-----
BODYBUILD IN 10 MINUTES A DAY	21-JAN-05	10-NOV-21	201
REVENGE OF MICKEY	14-DEC-05	10-NOV-21	190
BUILDING A CAR WITH TOOTHPICKS	18-MAR-06	10-NOV-21	187
DATABASE IMPLEMENTATION	04-JUN-03	10-NOV-21	221
COOKING WITH MUSHROOMS	28-FEB-04	10-NOV-21	212
HOLY GRAIL OF ORACLE	31-DEC-05	10-NOV-21	190
HANDCRANKED COMPUTERS	21-JAN-05	10-NOV-21	201
E-BUSINESS THE EASY WAY	01-MAR-06	10-NOV-21	188
PAINLESS CHILD-REARING	17-JUL-04	10-NOV-21	207
THE WOK WAY TO COOK	11-SEP-04	10-NOV-21	205
BIG BEAR AND LITTLE DOVE	08-NOV-05	10-NOV-21	192
HOW TO GET FASTER PIZZA	11-NOV-06	10-NOV-21	179
HOW TO MANAGE THE MANAGER	09-MAY-03	10-NOV-21	222
SHORTEST POEMS	01-MAY-05	10-NOV-21	198

14 rows selected.

Chapter 11:

Q.6

```
SQL> SELECT TO_CHAR(AVG(SUM((paideach-cost)*quantity)), '$999999999.99')
2 AS "Average Profit"
3 FROM orders JOIN orderitems USING(order#) JOIN books USING(isbn)
4 GROUP BY order#;
```

Average Profit

```
-----
$31.94
```

Q.8

```
SQL> SELECT name, category, TO_CHAR(AVG(retail), '$999999999.99') AS "Average Retail"
2 FROM books JOIN publisher USING(pubid)
3 WHERE category IN('COMPUTER', 'CHILDREN')
4 GROUP BY name, category
5 HAVING AVG(retail) > 50;
```

NAME	CATEGORY	Average Retail
-----	-----	-----
PUBLISH OUR WAY	CHILDREN	\$59.95
AMERICAN PUBLISHING	COMPUTER	\$52.30
PUBLISH OUR WAY	COMPUTER	\$54.50

Advanced Challenge:

```
SQL> SELECT title, NVL(SUM(quantity),0) AS "# of copies"
  2  FROM books LEFT JOIN orders NATURAL JOIN orderitems
  3  WHERE ((retail - cost) /cost) < 0.55
  4  GROUP BY title;
```

TITLE	# of copies
THE WOR WAY TO COOK	0
HANDCRANKED COMPUTERS	2
E-BUSINESS THE EASY WAY	2

Among books that generate less than a 55% profit, there are 4 books: "HOLY GRAIL OF ORACLE" has 3 copies sold, "REVENGE OF MICKEY" has the most number of copies sold(5), HANDCRANKED COMPUTERS" and "E-BUSINESS THE EASY WAY" have 2 copies sold each.

Part II

Q.1

```
SQL> SELECT DISTINCT c.customer# || ': ' || INITCAP(c.LastName) || ' ' || INITCAP(c.FirstName)
"Customer"
  2  FROM customers c JOIN orders o ON c.customer#=o.customer#
  3  JOIN orderitems oi ON oi.order# = o.order#
  4  JOIN books b ON oi.isbn = b.isbn
  5  where b.category in('CHILDREN', 'FAMILY LIFE')
  6  and b.category NOT IN ('FITNESS','COOKING');
```

Customer

```
-----
1007: Giana Tammy
1015: Schell Steve
1017: Nelson Becca
1003: Smith Leila
1010: Lucas Jake
1005: Girard Cindy
1018: Montiasa Greg
1020: Falah Kenneth
```

8 rows selected.

Q.2

```
SQL> SELECT TO_CHAR(o.order#) AS Order#, TO_CHAR(o.orderdate) AS "ORDER DATE", b.title,
SUM(oi.quantity) AS Quantity,
  2  TO_CHAR(SUM(oi.paideach), '$9999.99') AS Price, TO_CHAR(SUM(oi.quantity*oi.paideach),
'$9999.99') AS Total
  3  FROM books b
  4  JOIN orderitems oi ON oi.isbn = b.isbn
```

```

5 JOIN orders o ON o.order# = oi.order#
6 WHERE o.order# = 1007
7 GROUP BY TO_CHAR(o.order#), TO_CHAR(o.orderdate), b.title
8 UNION ALL
9 SELECT '--Order Total--',' ',SUM(oi.Quantity),
10 TO_CHAR(SUM(oi.Quantity*oi.PaidEach), '$9999.99') AS Total
11 FROM OrderItems oi
12 WHERE oi.Order# = 1007;

```

ORDER#	ORDER DATE	TITLE	QUANTITY	PRICE	TOTAL
1007	02-APR-09	BIG BEAR AND LITTLE DOVE	1	\$8.95	\$8.95
1007	02-APR-09	HOLY GRAIL OF ORACLE	3	\$72.15	\$216.45
1007	02-APR-09	DATABASE IMPLEMENTATION	1	\$55.95	\$55.95
1007	02-APR-09	E-BUSINESS THE EASY WAY	1	\$54.50	\$54.50
--Order Total--			6		\$335.85

Q.3

```

SQL> select DISTINCT Books.ISBN, Books.Title, TO_CHAR(Books.Retail, '$9999.99') AS Retail,
TO_CHAR(Books.Cost, '$9999.99') AS Cost
2 FROM Books
3 MINUS
4 SELECT DISTINCT Books.ISBN, Books.Title, TO_CHAR(Books.Retail, '$9999.99') AS Retail,
TO_CHAR(Books.Cost, '$9999.99') AS Cost
5 FROM Books LEFT JOIN OrderItems ON OrderItems.ISBN = Books.ISBN
6 LEFT JOIN Orders ON Orders.Order# = OrderItems.Order#
7 LEFT JOIN Customers ON Customers.Customer# = Orders.Customer#
8 WHERE Customers.State = 'FL';

```

ISBN	TITLE	RETAIL	COST
0132149871	HOW TO GET FASTER PIZZA	\$29.95	\$17.85
0299282519	THE WOK WAY TO COOK	\$28.75	\$19.00
0401140733	REVENGE OF MICKEY	\$22.00	\$14.20
1915762492	HANDCRANKED COMPUTERS	\$25.00	\$21.80
2147428890	SHORTEST POEMS	\$39.95	\$21.85
3957136468	HOLY GRAIL OF ORACLE	\$75.95	\$47.25
4981341710	BUILDING A CAR WITH TOOTHPICKS	\$59.95	\$37.80
9247381001	HOW TO MANAGE THE MANAGER	\$31.95	\$15.40

8 rows selected.

Q.4

```
SQL> SELECT DISTINCT c.Customer# ||': '||INITCAP(c.firstname) ||' '|| INITCAP(c.lastname)
Customer,
2  COUNT(o.Order#) AS Num_Orders,
3  NVL(TO_CHAR(sum((i.Paideach-b.Cost)*i.quantity),'$999.99'),'No Profit') AS Profit
4  FROM Customers c LEFT JOIN Orders o ON c.Customer# = o.Customer#
5  LEFT JOIN Orderitems i ON o.Order# = i.Order#
6  LEFT JOIN Books b ON b.ISBN = i.ISBN
7  GROUP BY c.Customer# ||': '||INITCAP(c.firstname) ||' '|| INITCAP(c.lastname)
8  ORDER BY customer;
```

CUSTOMER	NUM_ORDERS	PROFIT
1001: Bonita Morales	5	\$76.20
1002: Ryan Thompson	0	No Profit
1003: Leila Smith	2	\$54.05
1004: Thomas Pierson	1	\$14.90
1005: Cindy Girard	3	\$22.70
1006: Meshia Cruz	0	No Profit
1007: Tammy Giana	5	\$135.08
1008: Kenneth Jones	1	\$7.45
1009: Jorge Perez	0	No Profit
1010: Jake Lucas	3	\$91.45
1011: Reese Mcgovern	1	\$49.10
1012: William Mckenzie	0	No Profit
1013: Nicholas Nguyen	0	No Profit
1014: Jasmine Lee	1	\$24.55
1015: Steve Schell	1	\$7.26
1016: Michell Daum	0	No Profit
1017: Becca Nelson	4	\$55.28
1018: Greg Montiasa	2	\$25.90
1019: Jennifer Smith	1	\$24.55
1020: Kenneth Falah	2	\$82.35

20 rows selected.