**Qinzhi Peng**

**Part 1**

Chapter 10

3.

SELECT b.title, TO\_CHAR((oi.paideach - b.cost) \* oi.quantity , '$99.99') AS "Profit"

FROM orderitems oi

JOIN books b

ON oi.isbn = b.isbn

WHERE oi.order# = 1002;

TITLE Profit

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DATABASE IMPLEMENTATION $49.10

4.

SELECT title, Round((retail - cost)/cost \* 100, 0)||'%' AS "Percent of Markup"

FROM books;

TITLE Percent of Markup

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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%

5.

SELECT TO\_CHAR(CURRENT\_DATE, 'DAY, HH24:MM:SS') AS "Current Day"

FROM dual;

Current Day

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TUESDAY , 18:56:06

8.

SELECT title, pubdate , SYSDATE AS"Current Date", TRUNC(MONTHS\_BETWEEN(SYSDATE, pubdate), 0) Age

FROM books;

TITLE PUBDATE Current Date AGE

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BODYBUILD IN 10 MINUTES A DAY 21-JAN-05 09-NOV-21 201

REVENGE OF MICKEY 14-DEC-05 09-NOV-21 190

BUILDING A CAR WITH TOOTHPICKS 18-MAR-06 09-NOV-21 187

DATABASE IMPLEMENTATION 04-JUN-03 09-NOV-21 221

COOKING WITH MUSHROOMS 28-FEB-04 09-NOV-21 212

HOLY GRAIL OF ORACLE 31-DEC-05 09-NOV-21 190

HANDCRANKED COMPUTERS 21-JAN-05 09-NOV-21 201

E-BUSINESS THE EASY WAY 01-MAR-06 09-NOV-21 188

PAINLESS CHILD-REARING 17-JUL-04 09-NOV-21 207

THE WOK WAY TO COOK 11-SEP-04 09-NOV-21 205

BIG BEAR AND LITTLE DOVE 08-NOV-05 09-NOV-21 192

HOW TO GET FASTER PIZZA 11-NOV-06 09-NOV-21 179

HOW TO MANAGE THE MANAGER 09-MAY-03 09-NOV-21 222

SHORTEST POEMS 01-MAY-05 09-NOV-21 198

Chapter 11

6.

SELECT TO\_CHAR(SUM((oi.paideach – b.cost) \* oi.quantity) / COUNT(DISTINCT o.order#), '$99.99')

AS "Average Profit by Orders"

FROM books b, orderitems oi, orders o

WHERE oi.isbn = b.isbn

AND o.order# = oi.order#;

Average Profit by Orders

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$31.94

8.

SELECT name, category, TO\_CHAR(AVG(retail), '$99.99') AS "AVERAGE RETAIL"

FROM books b

JOIN publisher p

ON b.pubid = p. pubid

WHERE category IN ('COMPUTER', 'CHILDREN')

GROUP BY name, category

HAVING AVG(retail) > 50;

NAME CATEGORY AVERAGE RETAIL

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PUBLISH OUR WAY CHILDREN $59.95

AMERICAN PUBLISHING COMPUTER $52.30

PUBLISH OUR WAY COMPUTER $54.50

**Advanced Challenge**

SELECT b.title, COUNT(b.isbn) AS "Number of Copies Sold", CONCAT(ROUND((oi.paideach – b.cost)/b.cost\*100, 0), '%') AS " Percent of Profit"

FROM books b, orderitems oi

WHERE b.isbn = oi.isbn

AND (oi.paideach – b.cost) / b.cost < 0.55

GROUP BY b.title, oi.paideach, b.cost

ORDER BY COUNT(b.isbn) DESC;

TITLE Number of Copies Sold Percent of Profit

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REVENGE OF MICKEY 4 55%

E-BUSINESS THE EASY WAY 2 44%

HOLY GRAIL OF ORACLE 1 53%

HANDCRANKED COMPUTERS 1 15%

Finding: There is no need to drop books returning less than a 55% profit. The total number of books sold is 32, and the number of books returning less than a 55% profit is only 8. That is, more than 75% books are sold more than 55% profit. Also, REVENGE OF MICKEY and HOLY GRAIL OF ORACLE’s percent of profit are very near 55%.

**Part 2**

1.

SELECT DISTINCT c.customer# || ': ' ||

CONCAT(UPPER(SUBSTR(c.lastname,1,1)), LOWER(SUBSTR(c.lastname,2))) || ', ' ||

CONCAT (UPPER(SUBSTR(c.firstname, 1, 1)), LOWER(SUBSTR(c.firstname, 2))) AS "Customer Name"

FROM customers c

JOIN orders o

ON c.customer# = o.customer#

JOIN orderitems oi

ON o.order# = oi.order#

JOIN books b

ON oi.isbn = b.isbn

WHERE b.category IN ('CHILDREN', 'FAMILY LIFE')

MINUS

SELECT DISTINCT c.customer# || ': ' ||

CONCAT(UPPER(SUBSTR(c.lastname,1,1)), LOWER(SUBSTR(c.lastname,2))) || ', ' ||

CONCAT (UPPER(SUBSTR(c.firstname, 1, 1)), LOWER(SUBSTR(c.firstname, 2))) AS "Customer Name"

FROM customers c

JOIN orders o

ON c.customer# = o.customer#

JOIN orderitems oi

ON o.order# = oi.order#

JOIN books b

ON oi.isbn = b.isbn

WHERE b.category IN ('FITNESS', 'COOKING')

ORDER BY 1;

Customer Name

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1003: Smith, Leila

1007: Giana, Tammy

1010: Lucas, Jake

1015: Schell, Steve

1017: Nelson, Becca

1018: Montiasa, Greg

2.

SELECT TO\_CHAR(o.order#) AS "Order", TO\_CHAR(o.orderdate) AS "Order Date",

b.title AS "Title", TO\_CHAR(oi.quantity) AS "Number of Books", TO\_CHAR(b.retail, '$999.99') AS "PRICE",

TO\_CHAR(oi.quantity \* b.retail, '$999.99') AS "Subtotal"

FROM orders o

JOIN orderitems oi

ON o.order# = oi.order#

JOIN books b

ON oi.isbn = b.isbn

WHERE o.order# = 1007

GROUP BY o.order#, o.orderdate, b.title, oi.quantity, b.retail

UNION ALL

SELECT ' ', ' ' , ' ', ' ', 'Order Total :', TO\_CHAR(SUM(oi.quantity \* b.retail), '$999.99')

FROM orders o

JOIN orderitems oi

ON o.order# = oi.order#

JOIN books b

ON oi.isbn = b.isbn

WHERE o.order# = 1007;

Order Order Date Title Number of Books PRICE Subtotal

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1007 02-APR-09 BIG BEAR AND LITTLE DOVE 1 $8.95 $8.95

1007 02-APR-09 DATABASE IMPLEMENTATIO 1 $55.95 $55.95

1007 02-APR-09 HOLY GRAIL OF ORACLE 3 $75.95 $227.85

1007 02-APR-09 E-BUSINESS THE EASY WAY 1 $54.50 $54.50

Order Total : $347.25

3.

SELECT DISTINCT b.isbn, b.title, TO\_CHAR(b.retail, '$99.99') AS "PRICE",

TO\_CHAR(b.cost, '$99.99') AS "COST"

FROM books b

MINUS

SELECT DISTINCT b.isbn, b.title, TO\_CHAR(b.retail, '$99.99') AS "PRICE",

TO\_CHAR(b.cost, '$99.99') AS "COST"

FROM books b

JOIN orderitems oi

ON oi.isbn = b.isbn

JOIN orders o

ON o.order# = oi.order#

JOIN customers c

ON c.customer# = o.customer#

WHERE c.state = 'FL';

ISBN TITLE PRICE COST

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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

4.

SELECT c.customer# || ': ' ||

CONCAT(UPPER(SUBSTR(c.lastname,1,1)), LOWER(SUBSTR(c.lastname,2))) || ', ' ||

CONCAT (UPPER(SUBSTR(c.firstname, 1, 1)), LOWER(SUBSTR(c.firstname, 2))) AS "Customer Name",

COUNT(o.order#) AS "Number of Orders",

TO\_CHAR(SUM(quantity\*(paideach - cost)), '$990.00') AS "Total Profit"

FROM customers c

JOIN orders o

ON c.customer# = o.customer#

JOIN orderitems oi

ON o.order# = oi.order#

JOIN books b

ON oi.isbn = b.isbn

GROUP BY c.customer#, c.firstname, c.lastname

ORDER BY c.customer#;

Customer Name Number of Orders Total Profit

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1001: Morales, Bonita 5 $76.20

1003: Smith, Leila 2 $54.05

1004: Pierson, Thomas 1 $14.90

1005: Girard, Cindy 3 $22.70

1007: Giana, Tammy 5 $135.08

1008: Jones, Kenneth 1 $7.45

1010: Lucas, Jake 3 $91.45

1011: Mcgovern, Reese 1 $49.10

1014: Lee, Jasmine 1 $24.55

1015: Schell, Steve 1 $7.26

1017: Nelson, Becca 4 $55.28

1018: Montiasa, Greg 2 $25.90

1019: Smith, Jennifer 1 $24.55

1020: Falah, Kenneth 2 $82.35