

## problem 1

Create a list that displays the title of each book and the name and phone number of the contact at the publisher's office for reordering each book

```
SELECT P.NAME, P.PHONE, B.TITLE
FROM BOOKS B, PUBLISHER P WHERE P.PUBID = B.PUBID;
```

```
SQL> SELECT P.NAME, P.PHONE, B.TITLE FROM BOOKS B, PUBLISHER P WHERE P.PUBID = B.PUBID;
```

NAME	PHONE	TITLE
PRINTING IS US	000-714-8321	REVENGE OF MICKEY
PRINTING IS US	000-714-8321	HOW TO MANAGE THE MANAGER
PUBLISH OUR WAY	010-410-0010	E-BUSINESS THE EASY WAY
PUBLISH OUR WAY	010-410-0010	BUILDING A CAR WITH TOOTHPICKS
AMERICAN PUBLISHING	800-555-1211	HOLY GRAIL OF ORACLE
AMERICAN PUBLISHING	800-555-1211	DATABASE IMPLEMENTATION
AMERICAN PUBLISHING	800-555-1211	HANDCRANKED COMPUTERS
READING MATERIALS INC.	800-555-9743	COOKING WITH MUSHROOMS
READING MATERIALS INC.	800-555-9743	THE WOK WAY TO COOK
READING MATERIALS INC.	800-555-9743	HOW TO GET FASTER PIZZA
READING MATERIALS INC.	800-555-9743	BODYBUILD IN 10 MINUTES A DAY
REED-N-RITE	800-555-8284	PAINLESS CHILD-REARING
REED-N-RITE	800-555-8284	BIG BEAR AND LITTLE DOVE
REED-N-RITE	800-555-8284	SHORTEST POEMS

```
14 rows selected.

SQL> MICHAEL LUNDQUIST 00737340
```

## problem 2

Determine which orders haven't yet shipped and the name of the customer who placed the order. Sort the results by the date on which the order was placed.\* /

```
SELECT C.FIRSTNAME, C.LASTNAME, O.ORDER#
FROM CUSTOMERS C JOIN ORDERS O USING (CUSTOMER#)
WHERE SHIPDATE IS NULL
ORDER BY ORDERDATE;
```

```
SQL> SELECT C.FIRSTNAME, C.LASTNAME, O.ORDER# FROM CUSTOMERS C JOIN ORDERS O USING (CUSTOMER#) WHERE SHI
PDATE IS NULL ORDER BY ORDERDATE;

FIRSTNAME  LASTNAME      ORDER#
-----
BECCA      NELSON        1012
LEILA      SMITH         1016
KENNETH    FALAH        1015
GREG       MONTIASA     1019
BONITA     MORALES      1018
KENNETH    JONES        1020

6 rows selected.

SQL> MICHAEL LUNDQUIST 00737340
```

### problem 3

Produce a list of all customers who live in the state of Florida and have ordered books about computers

```
SELECT C.FIRSTNAME, C.LASTNAME
FROM CUSTOMERS C JOIN ORDERS O USING (CUSTOMER#)
JOIN ORDERITEMS OI USING (ORDER#)
JOIN BOOKS B USING (ISBN) WHERE C.STATE = 'FL' AND B.CATEGORY = 'COMPUTER';
```

```
SQL> SELECT C.FIRSTNAME, C.LASTNAME FROM CUSTOMERS C JOIN ORDERS O USING (CUSTOMER#) JOIN ORDERITEMS OI
USING (ORDER#) JOIN BOOKS B USING (ISBN) WHERE C.STATE = 'FL' AND B.CATEGORY = 'COMPUTER';

FIRSTNAME  LASTNAME
-----
BONITA     MORALES
BONITA     MORALES
LEILA      SMITH

SQL> MICHAEL LUNDQUIST 00737340
```

### problem 4

Determine which books customer Jake Lucas has purchased. Perform the search using the customer name, not the customer number. If he has purchased multiple copies of the same book, unduplicate the results.

```
SELECT UNIQUE ISBN
FROM CUSTOMERS C JOIN ORDERS O USING (CUSTOMER#)
JOIN ORDERITEMS USING (ORDER#)
JOIN BOOKS USING (ISBN)
WHERE C.FIRSTNAME = 'JAKE' AND C.LASTNAME = 'LUCAS';
```

```
SQL> SELECT UNIQUE ISBN FROM CUSTOMERS C JOIN ORDERS O USING (CUSTOMER#) JOIN ORDERITEMS USING (ORDER#)
JOIN BOOKS USING (ISBN) WHERE C.FIRSTNAME = 'JAKE' AND C.LASTNAME = 'LUCAS';

ISBN
-----
2491748320
9247381001

SQL> MICHAEL LUNDQUIST 00737340
```

### Problem 5

Determine the profit of each book sold to Jake Lucas, using the actual price the customer paid (not the book's regular retail price). Sort the results by order date. If more than one book was ordered, sort the results by profit amount in descending order. Perform the search using the customer name, not the customer number

```
SELECT ISBN, QUANTITY * (PAIDEACH - COST) AS PROFIT, ORDERDATE
FROM CUSTOMERS C JOIN ORDERS O USING (CUSTOMER#)
JOIN ORDERITEMS OI USING (ORDER#)
JOIN BOOKS B USING (ISBN)
WHERE C.FIRSTNAME = 'JAKE' AND C.LASTNAME = 'LUCAS'
ORDER BY ORDERDATE, (PAIDEACH - COST) DESC;
```

```
SQL> SELECT ISBN, QUANTITY * (PAIDEACH - COST) AS PROFIT, ORDERDATE FROM CUSTOMERS C JOIN ORDERS O USING
(CUSTOMER#) JOIN ORDERITEMS OI USING (ORDER#) JOIN BOOKS B USING (ISBN) WHERE C.FIRSTNAME = 'JAKE' AND
C.LASTNAME = 'LUCAS' ORDER BY ORDERDATE, (PAIDEACH - COST) DESC;
```

ISBN	PROFIT	ORDERDATE
2491748320	37.45	31-MAR-09
9247381001	16.55	31-MAR-09
2491748320	37.45	03-APR-09

```
SQL> MICHAEL LUNDQUIST 00737340
```

## Problem 6

Which books were written by an author with the last name Adams? Perform the search using the author name.

```
SELECT ISBN, TITLE
FROM BOOKS B JOIN BOOKAUTHOR BA USING (ISBN) JOIN AUTHOR A USING (AUTHORID)
WHERE A.LNAME = 'ADAMS';
```

```
SQL> SELECT ISBN, TITLE FROM BOOKS B JOIN BOOKAUTHOR BA USING (ISBN) JOIN AUTHOR A USING (AUTHORID) WHER
E A.LNAME = 'ADAMS';
```

ISBN	TITLE
8843172113	DATABASE IMPLEMENTATION

```
SQL> MICHAEL LUNDQUIST 00737340;
```

## Problem 7

What gift will a customer who orders the book "Shortest Poems" receive? Use the actual book retail value to determine the gift

```
SELECT GIFT
FROM PROMOTION
WHERE (SELECT RETAIL FROM BOOKS WHERE TITLE = 'SHORTEST POEMS') BETWEEN MINRETAIL
AND MAXRETAIL;
```

```
SQL> SELECT GIFT FROM PROMOTION WHERE (SELECT RETAIL FROM BOOKS WHERE TITLE = 'SHORTEST POEMS') BETWEEN
MINRETAIL AND MAXRETAIL;

GIFT
-----
BOOK COVER

SQL> MICHAEL LUNDQUIST 00737340
```

## Problem 8

Identify the authors of the books Becca Nelson ordered. Perform the search using the customer name.

```
SELECT FNAME, LNAME
FROM CUSTOMERS C JOIN ORDERS USING (CUSTOMER#)
JOIN ORDERITEMS USING (ORDER#)
JOIN BOOKS USING (ISBN) JOIN BOOKAUTHOR USING (ISBN) JOIN AUTHOR A USING
(AUTHORID) WHERE C.LASTNAME = 'NELSON' AND C.FIRSTNAME = 'BECCA';
```

```
SQL> SELECT FNAME, LNAME FROM CUSTOMERS C JOIN ORDERS USING (CUSTOMER#) JOIN ORDERITEMS USING (ORDER#) J
JOIN BOOKS USING (ISBN) JOIN BOOKAUTHOR USING (ISBN) JOIN AUTHOR A USING (AUTHORID) WHERE C.LASTNAME = 'N
ELSON' AND C.FIRSTNAME = 'BECCA';

FNAME      LNAME
-----
ROBERT     ROBINSON
WILLIAM    WHITE
LISA       WHITE
JACK       BAKER
OSCAR      FIELDS
ROBERT     ROBINSON
JANICE     JONES

7 rows selected.

SQL> MICHAEL LUNDQUIST 00737340
```

## Problem 9

Display a list of all books in the BOOKS table. If a book has been ordered by a customer, also list the corresponding order number and the state in which the customer resides.

```
SELECT TITLE, STATE, ORDER#
FROM CUSTOMERS JOIN ORDERS USING (CUSTOMER#)
JOIN ORDERITEMS OI USING (ORDER#)
RIGHT OUTER JOIN BOOKS USING (ISBN);
```

```
SQL> SELECT TITLE, STATE, ORDER# FROM CUSTOMERS JOIN ORDERS USING (CUSTOMER#) JOIN ORDERITEMS OI USING (
ORDER#) RIGHT OUTER JOIN BOOKS USING (ISBN) ORDER BY TITLE;
```

TITLE	ST	ORDER#
BIG BEAR AND LITTLE DOVE	MI	1012
BIG BEAR AND LITTLE DOVE	TX	1007
BIG BEAR AND LITTLE DOVE	FL	1017
BODYBUILD IN 10 MINUTES A DAY	FL	1003
BUILDING A CAR WITH TOOTHPICKS		
COOKING WITH MUSHROOMS	FL	1018
COOKING WITH MUSHROOMS	FL	1003
COOKING WITH MUSHROOMS	WY	1020
COOKING WITH MUSHROOMS	WA	1000
COOKING WITH MUSHROOMS	NJ	1015
COOKING WITH MUSHROOMS	WA	1009
-----		
TITLE	ST	ORDER#
COOKING WITH MUSHROOMS	ID	1008
DATABASE IMPLEMENTATION	FL	1018
DATABASE IMPLEMENTATION	TX	1007
DATABASE IMPLEMENTATION	NJ	1010
DATABASE IMPLEMENTATION	IL	1002
DATABASE IMPLEMENTATION	FL	1003
DATABASE IMPLEMENTATION	WY	1013
E-BUSINESS THE EASY WAY	TX	1007
E-BUSINESS THE EASY WAY	FL	1006
HANDCRANKED COMPUTERS	MI	1012
HOLY GRAIL OF ORACLE	TX	1007
-----		
TITLE	ST	ORDER#
HOW TO GET FASTER PIZZA		
HOW TO MANAGE THE MANAGER	GA	1001
PAINLESS CHILD-REARING	GA	1001
PAINLESS CHILD-REARING	GA	1011
PAINLESS CHILD-REARING	NJ	1004
PAINLESS CHILD-REARING	FL	1016
PAINLESS CHILD-REARING	MI	1012
REVENGE OF MICKEY	GA	1019
REVENGE OF MICKEY	MI	1012
REVENGE OF MICKEY	TX	1014
REVENGE OF MICKEY	WA	1009
-----		
TITLE	ST	ORDER#

```
TITLE ST ORDER#
-----
SHORTEST POEMS GA 1005
THE WOK WAY TO COOK

35 rows selected.

SQL> MICHAEL LUNDQUIST 00737340
```

### Problem 10

An EMPLOYEES table was added to the JustLee Books database to track employee information. Display a list of each employee's name, job title, and manager's name. Use column aliases to clearly identify employee and manager name values. Include all employees in the list and sort by manager name.

```
SELECT E.FNAME || ' ' || E.LNAME AS EMPLOYEE_NAME, E.JOB AS TITLE, M.FNAME || ' '
|| M.LNAME AS MGR_NAME
```

```
FROM EMPLOYEES E, EMPLOYEES M WHERE NVL(E.MGR, 7839) = M.EMPNO  
ORDER BY M.LNAME, M.FNAME;
```

```
SQL> SELECT E.FNAME || ' ' || E.LNAME AS EMPLOYEE_NAME, E.JOB AS TITLE, M.FNAME || ' ' || M.LNAME AS MGR_NAME  
FROM EMPLOYEES E, EMPLOYEES M WHERE NVL(E.MGR, 7839) = M.EMPNO ORDER BY M.LNAME, M.FNAME;
```

EMPLOYEE_NAME	TITLE
SUE STUART	MTech1
LARRY JONES	
SAM SMITH	GTech1
BEN KING	
BEN KING	GTECH2
BEN KING	

  

EMPLOYEE_NAME	TITLE
JIM POTTS	GTech1
BEN KING	
LARRY JONES	MTech2
BEN KING	

```
SQL> MICHAEL LUNDQUIST 00737340
```