

## ITSE 2309 – Database Programming: Oracle

### Lab 7 – Joining Data from Multiple Tables

To perform these assignments, refer to the tables in the JustLee Books database. Generate and test two SQL queries for each of the following tasks:

- the SQL statement needed to perform the stated task with the traditional approach,
- the SQL statement needed to perform the stated task with the JOIN keyword.

Apply table aliases in all queries.

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.

TITLE	CONTACT	PHONE
REVENGE OF MICKEY	TOMMIE SEYMOUR	000-714-8321
HOW TO MANAGE THE MANAGER	TOMMIE SEYMOUR	000-714-8321
E-BUSINESS THE EASY WAY	JANE TOMLIN	010-410-0010
BUILDING A CAR WITH TOOTHPICKS	JANE TOMLIN	010-410-0010
HOLY GRAIL OF ORACLE	DAVID DAVIDSON	800-555-1211
DATABASE IMPLEMENTATION	DAVID DAVIDSON	800-555-1211
HANDCRANKED COMPUTERS	DAVID DAVIDSON	800-555-1211
COOKING WITH MUSHROOMS	RENEE SMITH	800-555-9743
THE WOK WAY TO COOK	RENEE SMITH	800-555-9743
HOW TO GET FASTER PIZZA	RENEE SMITH	800-555-9743
BODYBUILD IN 10 MINUTES A DAY	RENEE SMITH	800-555-9743
PAINLESS CHILD-REARING	SEBASTIAN JONES	800-555-8284
BIG BEAR AND LITTLE DOVE	SEBASTIAN JONES	800-555-8284
SHORTEST POEMS	SEBASTIAN JONES	800-555-8284

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.

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

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

LASTNAME	CUSTOMER#
SMITH	1003
MORALES	1001

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, do not duplicate the results.

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TITLE
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PAINLESS CHILD-REARING
HOW TO MANAGE THE MANAGER
```

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.

```
TITLE                                PAIDEACH-COST
-----                                -
PAINLESS CHILD-REARING                37.45
HOW TO MANAGE THE MANAGER              16.55
PAINLESS CHILD-REARING                37.45
```

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

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TITLE
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DATABASE IMPLEMENTATION
```

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

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GIFT
-----
BOOK COVER
```

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

```
LNAME      FNAME      TITLE
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JONES      JANICE     REVENGE OF MICKEY
BAKER      JACK       PAINLESS CHILD-REARING
WHITE      WILLIAM    HANDCRANKED COMPUTERS
WHITE      LISA       HANDCRANKED COMPUTERS
ROBINSON   ROBERT     BIG BEAR AND LITTLE DOVE
ROBINSON   ROBERT     PAINLESS CHILD-REARING
FIELDS     OSCAR      PAINLESS CHILD-REARING
```

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.

TITLE	ORDER#	ST
COOKING WITH MUSHROOMS	1018	FL
DATABASE IMPLEMENTATION	1018	FL
BODYBUILD IN 10 MINUTES A DAY	1003	FL
COOKING WITH MUSHROOMS	1003	FL
DATABASE IMPLEMENTATION	1003	FL
PAINLESS CHILD-REARING	1016	FL
E-BUSINESS THE EASY WAY	1006	FL
COOKING WITH MUSHROOMS	1008	ID
REVENGE OF MICKEY	1009	WA
COOKING WITH MUSHROOMS	1009	WA
COOKING WITH MUSHROOMS	1000	WA
REVENGE OF MICKEY	1014	TX
HOLY GRAIL OF ORACLE	1007	TX
BIG BEAR AND LITTLE DOVE	1007	TX
DATABASE IMPLEMENTATION	1007	TX
E-BUSINESS THE EASY WAY	1007	TX
COOKING WITH MUSHROOMS	1020	WY
PAINLESS CHILD-REARING	1011	GA
PAINLESS CHILD-REARING	1001	GA
HOW TO MANAGE THE MANAGER	1001	GA
DATABASE IMPLEMENTATION	1002	IL
DATABASE IMPLEMENTATION	1013	WY
BIG BEAR AND LITTLE DOVE	1017	FL
REVENGE OF MICKEY	1012	MI
HANDCRANKED COMPUTERS	1012	MI
PAINLESS CHILD-REARING	1012	MI
BIG BEAR AND LITTLE DOVE	1012	MI
REVENGE OF MICKEY	1019	GA
SHORTEST POEMS	1005	GA
DATABASE IMPLEMENTATION	1010	NJ
COOKING WITH MUSHROOMS	1015	NJ
PAINLESS CHILD-REARING	1004	NJ
HOW TO GET FASTER PIZZA		
THE WOK WAY TO COOK		
BUILDING A CAR WITH TOOTHPICKS		

35 rows selected.

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.

Employee Name	JOB	Manager Name
BEN KING	GTECH2	
SAM SMITH	GTech1	BEN KING
JIM POTTS	GTech1	BEN KING
LARRY JONES	MTech2	BEN KING
SUE STUART	MTech1	LARRY JONES