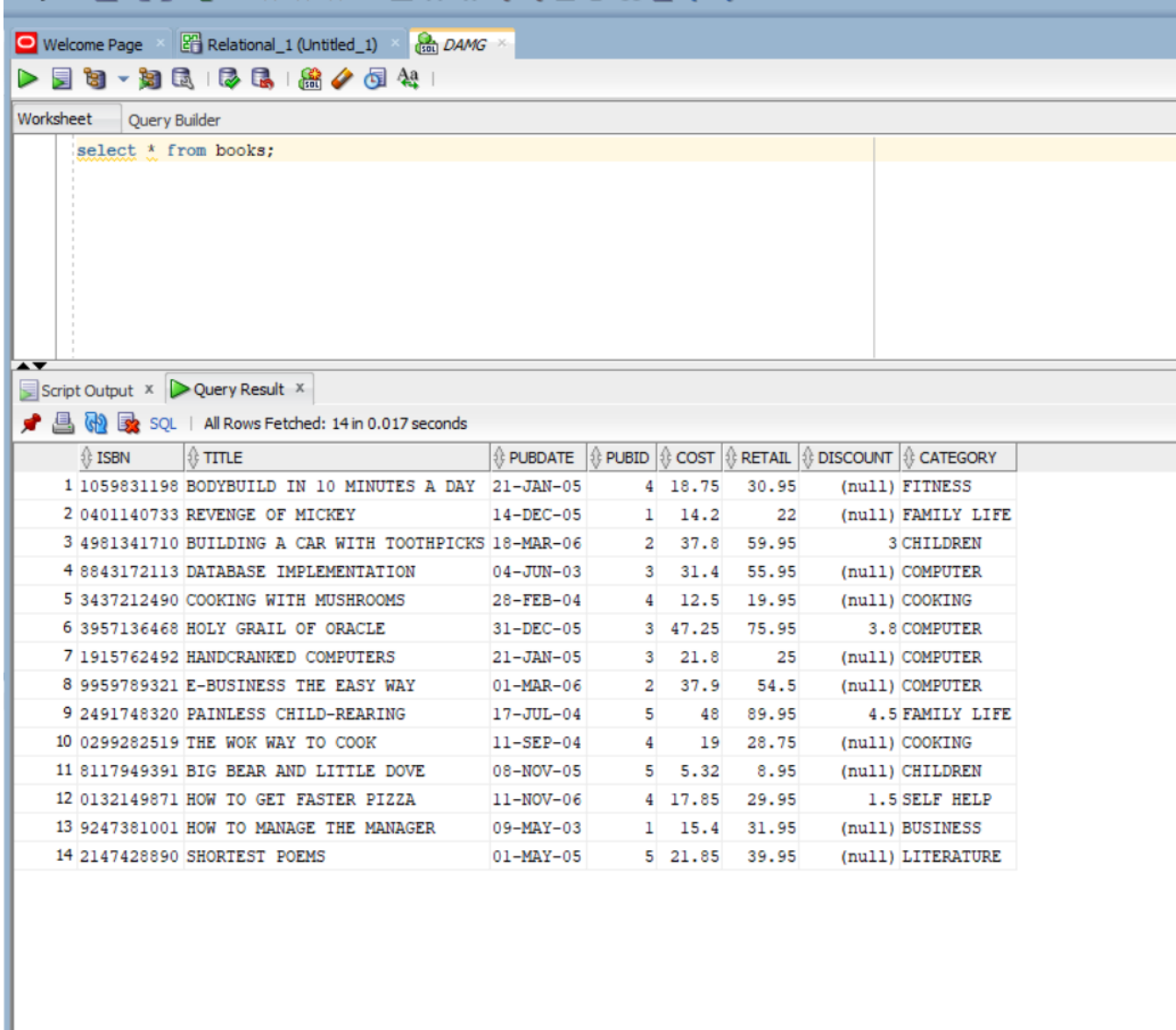


PART - A

To determine the exact name of fields used in the tables for these exercises, refer to the tables in the JustLee Books database, or use the DESCRIBE tablename command to view the table's structure.

1. Display a list of all data contained in the BOOKS table.

select * from books;



The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', and 'DAMG'. Below the tabs is a toolbar with various icons. The main area is divided into 'Worksheet' and 'Query Builder' tabs. The 'Query Builder' tab is active, showing the SQL query 'select * from books;'. Below the query editor, there are tabs for 'Script Output' and 'Query Result'. The 'Query Result' tab is active, displaying the results of the query. The results are shown in a table with 14 rows and 9 columns. The columns are: ISBN, TITLE, PUBDATE, PUBID, COST, RETAIL, DISCOUNT, and CATEGORY. The data is as follows:

ISBN	TITLE	PUBDATE	PUBID	COST	RETAIL	DISCOUNT	CATEGORY
1 1059831198	BODYBUILD IN 10 MINUTES A DAY	21-JAN-05	4	18.75	30.95	(null)	FITNESS
2 0401140733	REVENGE OF MICKEY	14-DEC-05	1	14.2	22	(null)	FAMILY LIFE
3 4981341710	BUILDING A CAR WITH TOOTHPICKS	18-MAR-06	2	37.8	59.95	3	CHILDREN
4 8843172113	DATABASE IMPLEMENTATION	04-JUN-03	3	31.4	55.95	(null)	COMPUTER
5 3437212490	COOKING WITH MUSHROOMS	28-FEB-04	4	12.5	19.95	(null)	COOKING
6 3957136468	HOLY GRAIL OF ORACLE	31-DEC-05	3	47.25	75.95	3.8	COMPUTER
7 1915762492	HANDCRANKED COMPUTERS	21-JAN-05	3	21.8	25	(null)	COMPUTER
8 9959789321	E-BUSINESS THE EASY WAY	01-MAR-06	2	37.9	54.5	(null)	COMPUTER
9 2491748320	PAINLESS CHILD-REARING	17-JUL-04	5	48	89.95	4.5	FAMILY LIFE
10 0299282519	THE WOK WAY TO COOK	11-SEP-04	4	19	28.75	(null)	COOKING
11 8117949391	BIG BEAR AND LITTLE DOVE	08-NOV-05	5	5.32	8.95	(null)	CHILDREN
12 0132149871	HOW TO GET FASTER PIZZA	11-NOV-06	4	17.85	29.95	1.5	SELF HELP
13 9247381001	HOW TO MANAGE THE MANAGER	09-MAY-03	1	15.4	31.95	(null)	BUSINESS
14 2147428890	SHORTEST POEMS	01-MAY-05	5	21.85	39.95	(null)	LITERATURE

2. List the title only of all books available in inventory, using the BOOKS table.

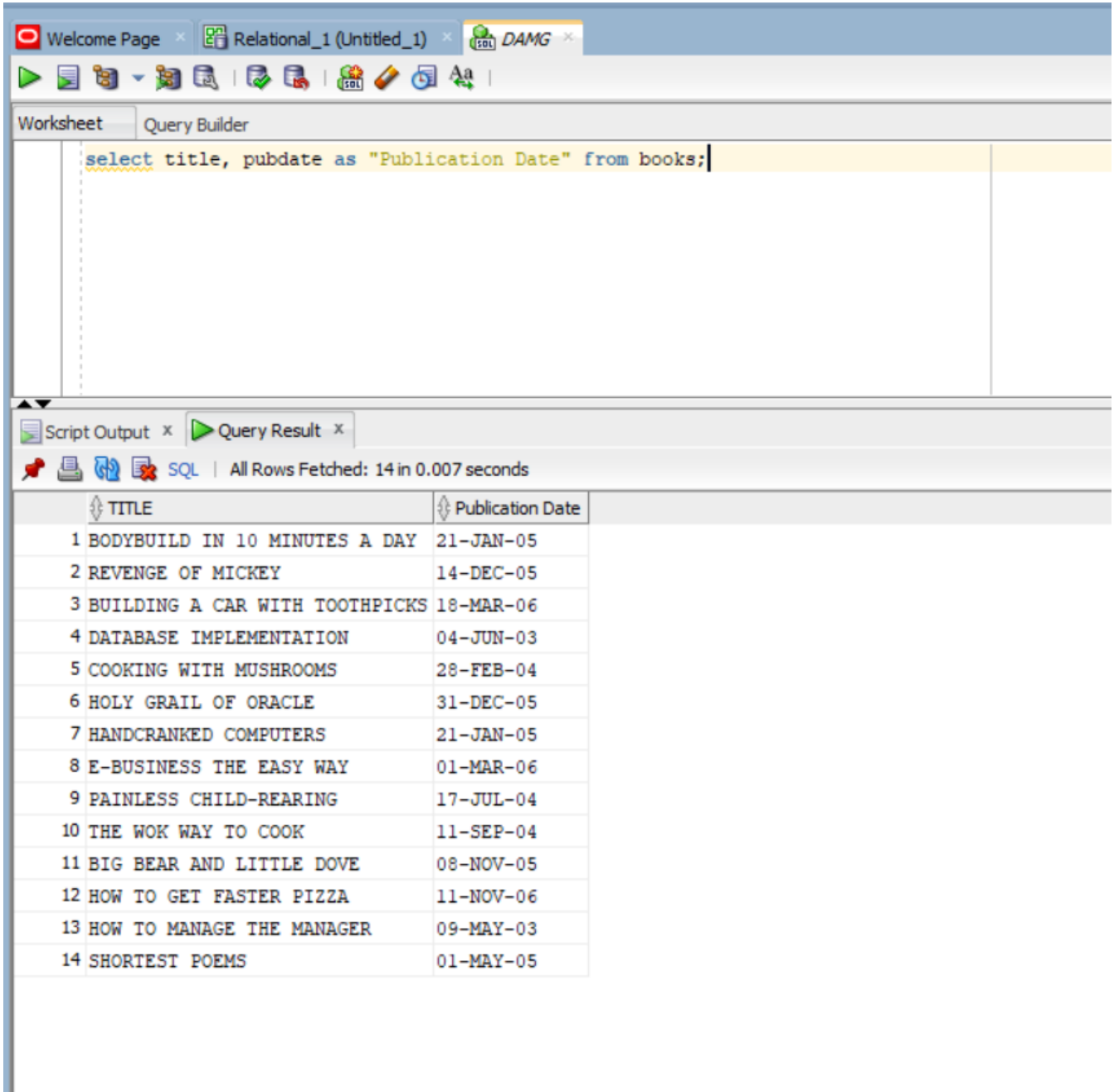
Select title from books;

The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', and 'DAMG'. Below the tabs is a toolbar with various icons. The main area is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `select title from books;`. Below this, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with a single column labeled 'TITLE'. The table contains 14 rows of book titles, numbered 1 through 14. The status bar at the bottom indicates 'All Rows Fetched: 14 in 0.007 seconds'.

TITLE
1 BODYBUILD IN 10 MINUTES A DAY
2 REVENGE OF MICKEY
3 BUILDING A CAR WITH TOOTHPICKS
4 DATABASE IMPLEMENTATION
5 COOKING WITH MUSHROOMS
6 HOLY GRAIL OF ORACLE
7 HANDCRANKED COMPUTERS
8 E-BUSINESS THE EASY WAY
9 PAINLESS CHILD-REARING
10 THE WOK WAY TO COOK
11 BIG BEAR AND LITTLE DOVE
12 HOW TO GET FASTER PIZZA
13 HOW TO MANAGE THE MANAGER
14 SHORTEST POEMS

3. List the title and publication date for each book in the BOOKS table. Use the column heading "Publication Date" for the Pubdate field.

select title, pubdate as "Publication Date" from books;

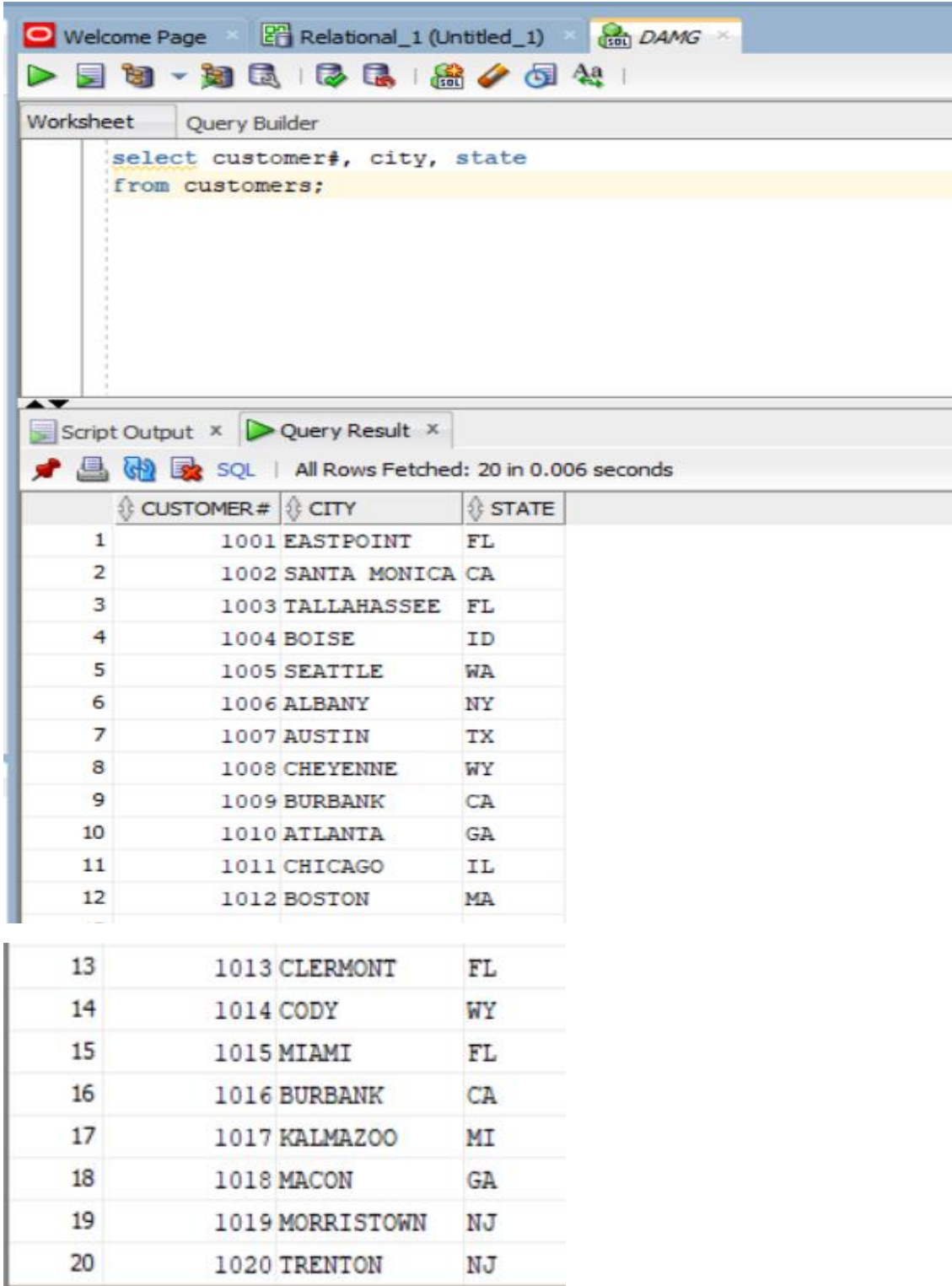


The screenshot shows a database query tool interface. The top bar includes tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', and 'DAMG'. Below the tabs is a toolbar with various icons. The main window is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `select title, pubdate as "Publication Date" from books;`. Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab displays the results of the query, showing 14 rows of data. The results are presented in a table with two columns: 'TITLE' and 'Publication Date'. The data is as follows:

	TITLE	Publication Date
1	BODYBUILD IN 10 MINUTES A DAY	21-JAN-05
2	REVENGE OF MICKEY	14-DEC-05
3	BUILDING A CAR WITH TOOTHPICKS	18-MAR-06
4	DATABASE IMPLEMENTATION	04-JUN-03
5	COOKING WITH MUSHROOMS	28-FEB-04
6	HOLY GRAIL OF ORACLE	31-DEC-05
7	HANDCRANKED COMPUTERS	21-JAN-05
8	E-BUSINESS THE EASY WAY	01-MAR-06
9	PAINLESS CHILD-REARING	17-JUL-04
10	THE WOK WAY TO COOK	11-SEP-04
11	BIG BEAR AND LITTLE DOVE	08-NOV-05
12	HOW TO GET FASTER PIZZA	11-NOV-06
13	HOW TO MANAGE THE MANAGER	09-MAY-03
14	SHORTEST POEMS	01-MAY-05

4. List the customer number for each customer in the CUSTOMERS table, along with the city and state in which the customer lives.

select customer#, city, state from customers;



The screenshot shows a database query tool interface. The top bar includes tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', and 'DAMG'. Below the tabs is a toolbar with various icons. The main window is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `select customer#, city, state from customers;`. Below the query editor, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with 20 rows, showing customer numbers, cities, and states. The table has columns labeled 'CUSTOMER #', 'CITY', and 'STATE'. The data is as follows:

	CUSTOMER #	CITY	STATE
1	1001	EASTPOINT	FL
2	1002	SANTA MONICA	CA
3	1003	TALLAHASSEE	FL
4	1004	BOISE	ID
5	1005	SEATTLE	WA
6	1006	ALBANY	NY
7	1007	AUSTIN	TX
8	1008	CHEYENNE	WY
9	1009	BURBANK	CA
10	1010	ATLANTA	GA
11	1011	CHICAGO	IL
12	1012	BOSTON	MA
13	1013	CLERMONT	FL
14	1014	CODY	WY
15	1015	MIAMI	FL
16	1016	BURBANK	CA
17	1017	KALMAZOO	MI
18	1018	MACON	GA
19	1019	MORRISTOWN	NJ
20	1020	TRENTON	NJ

5. Create a list containing the publisher's name, the person usually contacted, and the publisher's telephone number. Rename the contact column "Contact Person" in the displayed results. (Hint: Use the PUBLISHER table.)

select name, contact as "Contact Person", phone from publisher;

The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', 'DAMG', and 'DAMG~1'. Below the tabs is a toolbar with various icons. The main window is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `select name, contact as "Contact Person", phone from publisher;`. Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with three columns: 'NAME', 'Contact Person', and 'PHONE'. There are five rows of data.

	NAME	Contact Person	PHONE
1	PRINTING IS US	TOMMIE SEYMOUR	000-714-8321
2	PUBLISH OUR WAY	JANE TOMLIN	010-410-0010
3	AMERICAN PUBLISHING	DAVID DAVIDSON	800-555-1211
4	READING MATERIALS INC.	RENEE SMITH	800-555-9743
5	REED-N-RITE	SEBASTIAN JONES	800-555-8284

6. Determine which categories are represented in the current book inventory. List each category only once.

SELECT DISTINCT category FROM BOOKS;

The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', and 'DAMG'. Below the tabs is a toolbar with various icons. The main workspace is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `SELECT DISTINCT category FROM BOOKS;`. Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with a single column labeled 'CATEGORY'. The table contains 8 rows of data, numbered 1 through 8.

CATEGORY
1 FITNESS
2 FAMILY LIFE
3 CHILDREN
4 COMPUTER
5 COOKING
6 SELF HELP
7 BUSINESS
8 LITERATURE

7. List the customer number from the ORDERS table for each customer who has placed an order with the bookstore. List each customer number only once.

SELECT DISTINCT customer# FROM ORDERS;

The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', 'DAMG', and 'DAMG~1'. Below the tabs is a toolbar with various icons. The main window is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `SELECT DISTINCT customer# FROM ORDERS;`. Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with two columns: 'CUSTOMER#' and a list of 14 distinct customer numbers. The status bar at the bottom indicates 'All Rows Fetched: 14 in 0.005 seconds'.

	CUSTOMER#
1	1005
2	1010
3	1011
4	1001
5	1020
6	1018
7	1003
8	1007
9	1004
10	1019
11	1017
12	1014
13	1015
14	1008

8. Create a list of each book title stored in the BOOKS table and the category in which each book belongs. Reverse the sequence of the columns so that the category of each book is listed first.

SELECT category, title FROM BOOKS;

The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', 'DAMG', and 'DAMG~1'. Below the tabs is a toolbar with various icons. The main window is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `SELECT category, title FROM BOOKS;`. Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with two columns: 'CATEGORY' and 'TITLE'. The table contains 14 rows of data, numbered 1 through 14. The status bar at the bottom indicates 'All Rows Fetched: 14 in 0.006 seconds'.

	CATEGORY	TITLE
1	FITNESS	BODYBUILD IN 10 MINUTES A DAY
2	FAMILY LIFE	REVENGE OF MICKEY
3	CHILDREN	BUILDING A CAR WITH TOOTHPICKS
4	COMPUTER	DATABASE IMPLEMENTATION
5	COOKING	COOKING WITH MUSHROOMS
6	COMPUTER	HOLY GRAIL OF ORACLE
7	COMPUTER	HANDCRANKED COMPUTERS
8	COMPUTER	E-BUSINESS THE EASY WAY
9	FAMILY LIFE	PAINLESS CHILD-REARING
10	COOKING	THE WOK WAY TO COOK
11	CHILDREN	BIG BEAR AND LITTLE DOVE
12	SELF HELP	HOW TO GET FASTER PIZZA
13	BUSINESS	HOW TO MANAGE THE MANAGER
14	LITERATURE	SHORTEST POEMS

9. Create a list of authors that displays the last name followed by the first name for each author. The last names and first names should be separated by a comma and a blank space.

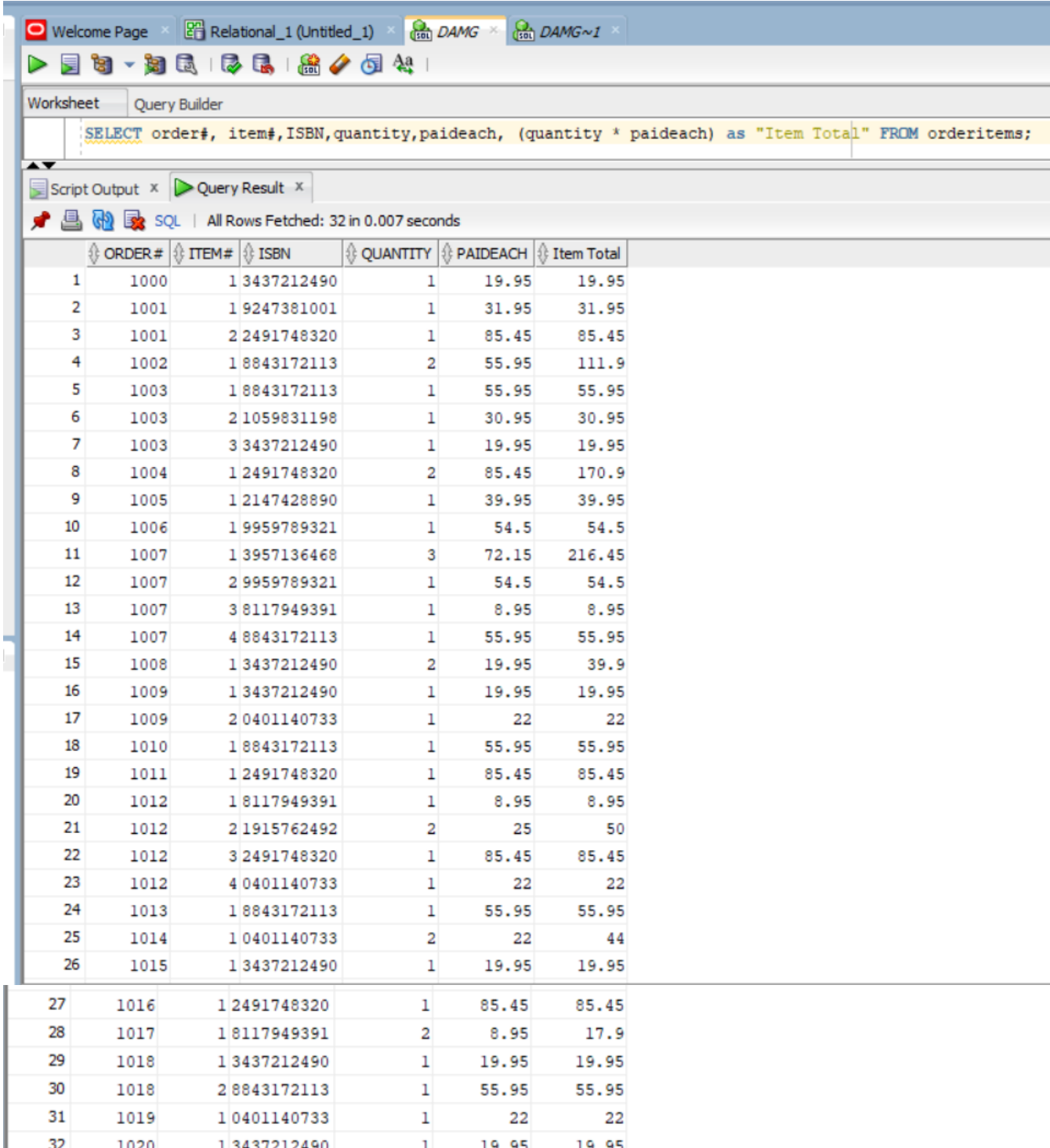
```
SELECT LNAME || ', ' || FNAME "AUTHOR NAME" FROM author;
```

The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', 'DAMG', and 'DAMG~1'. Below the tabs is a toolbar with various icons. The main window is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `SELECT LNAME || ', ' || FNAME "AUTHOR NAME" FROM author;`. Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with 14 rows. The first row is the header 'AUTHOR NAME'. The subsequent rows contain the author names in the format 'LASTNAME, FIRSTNAME'.

	AUTHOR NAME
1	SMITH, SAM
2	JONES, JANICE
3	AUSTIN, JAMES
4	MARTINEZ, SHEILA
5	KZOSCHSKY, TAMARA
6	PORTER, LISA
7	ADAMS, JUAN
8	BAKER, JACK
9	PETERSON, TINA
10	WHITE, WILLIAM
11	WHITE, LISA
12	ROBINSON, ROBERT
13	FIELDS, OSCAR
14	WILKINSON, ANTHONY

10. List all information for each order item. Include an item total, which can be calculated by multiplying the Quantity and Paid each columns. Use a column alias for the calculated value to show the heading "Item Total" in the output.

SELECT order#, item#,ISBN,quantity,paideach, (quantity * paideach) as "Item Total" FROM orderitems;



The screenshot shows a database query tool interface. The top bar includes tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', 'DAMG', and 'DAMG~1'. Below the tabs is a toolbar with various icons. The main area is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the SQL query: `SELECT order#, item#,ISBN,quantity,paideach, (quantity * paideach) as "Item Total" FROM orderitems;`. Below the query is a 'Script Output' section with a 'Query Result' tab. The 'Query Result' tab shows the results of the query, with a status bar indicating 'All Rows Fetched: 32 in 0.007 seconds'. The results are displayed in a table with 32 rows and 6 columns: ORDER#, ITEM#, ISBN, QUANTITY, PAIDEACH, and Item Total.

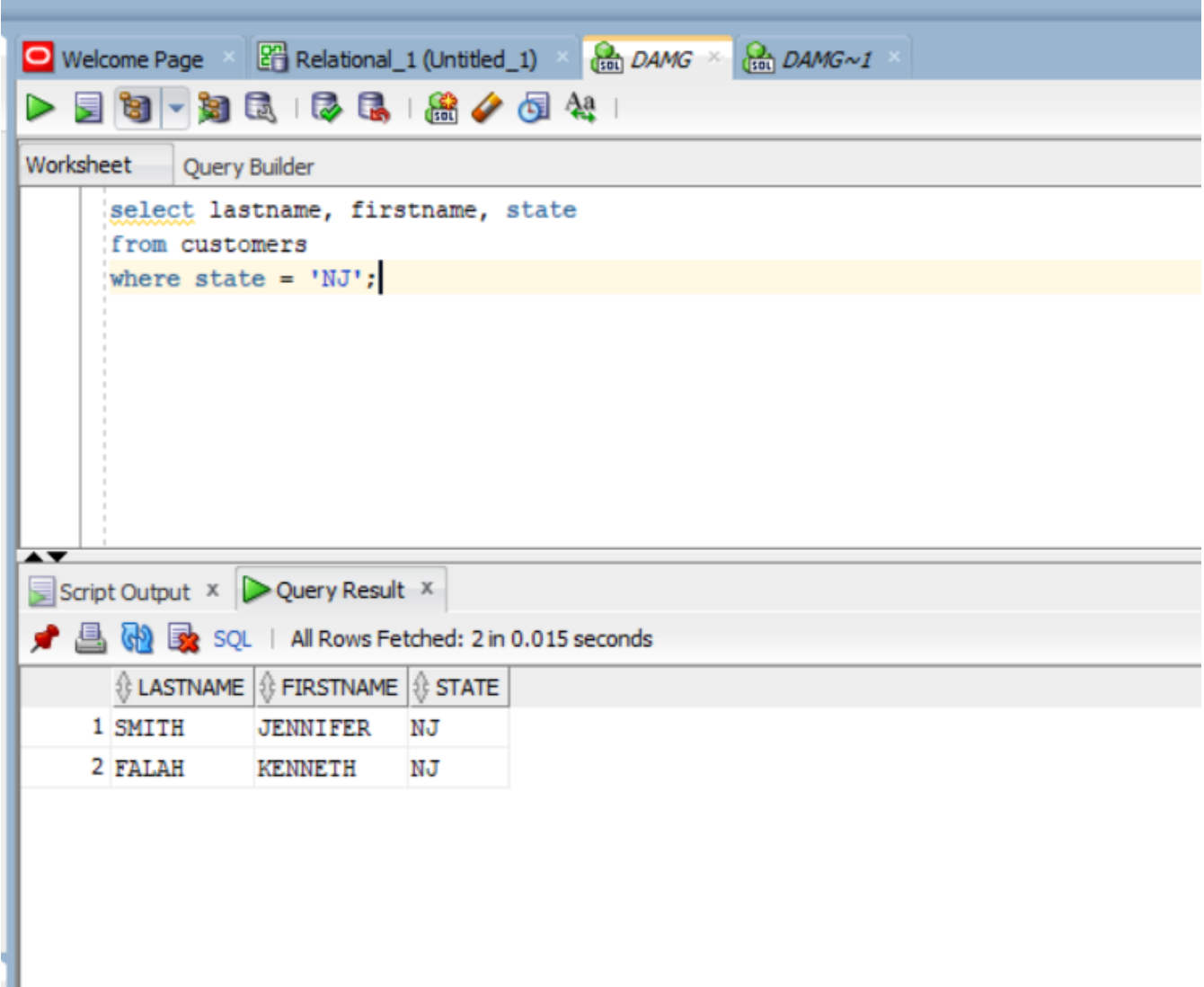
	ORDER#	ITEM#	ISBN	QUANTITY	PAIDEACH	Item Total
1	1000	1	3437212490	1	19.95	19.95
2	1001	1	9247381001	1	31.95	31.95
3	1001	2	2491748320	1	85.45	85.45
4	1002	1	8843172113	2	55.95	111.9
5	1003	1	8843172113	1	55.95	55.95
6	1003	2	1059831198	1	30.95	30.95
7	1003	3	3437212490	1	19.95	19.95
8	1004	1	2491748320	2	85.45	170.9
9	1005	1	2147428890	1	39.95	39.95
10	1006	1	9959789321	1	54.5	54.5
11	1007	1	3957136468	3	72.15	216.45
12	1007	2	9959789321	1	54.5	54.5
13	1007	3	8117949391	1	8.95	8.95
14	1007	4	8843172113	1	55.95	55.95
15	1008	1	3437212490	2	19.95	39.9
16	1009	1	3437212490	1	19.95	19.95
17	1009	2	0401140733	1	22	22
18	1010	1	8843172113	1	55.95	55.95
19	1011	1	2491748320	1	85.45	85.45
20	1012	1	8117949391	1	8.95	8.95
21	1012	2	1915762492	2	25	50
22	1012	3	2491748320	1	85.45	85.45
23	1012	4	0401140733	1	22	22
24	1013	1	8843172113	1	55.95	55.95
25	1014	1	0401140733	2	22	44
26	1015	1	3437212490	1	19.95	19.95
27	1016	1	2491748320	1	85.45	85.45
28	1017	1	8117949391	2	8.95	17.9
29	1018	1	3437212490	1	19.95	19.95
30	1018	2	8843172113	1	55.95	55.95
31	1019	1	0401140733	1	22	22
32	1020	1	3437212490	1	19.95	19.95

PART B: RESTRICTING ROWS AND SORTING DATA

To perform the following assignments, refer to the tables created in the JLDB_Build_8.sql script . Give the SQL statements and output for the following data requests:

1. Which customers live in New Jersey? List each customer's last name, first name, and state.

```
select lastname, firstname, state
from customers
where state = 'NJ';
```



The screenshot shows a database query tool interface. The top toolbar includes icons for running queries, saving, and other database functions. The main window is divided into two tabs: 'Worksheet' and 'Query Builder'. The 'Query Builder' tab is active, displaying the following SQL query:

```
select lastname, firstname, state
from customers
where state = 'NJ';
```

Below the query editor, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The status bar indicates 'All Rows Fetched: 2 in 0.015 seconds'. The results are displayed in a table with three columns: LASTNAME, FIRSTNAME, and STATE.

	LASTNAME	FIRSTNAME	STATE
1	SMITH	JENNIFER	NJ
2	FALAH	KENNETH	NJ

2. Which orders shipped after April 1, 2009? List each order number and the date it shipped.

select order#, shipdate from orders

where shipdate > '01-APR-2009';

The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'Relational_1 (Untitled_1)', 'DAMG', and 'DAMG~1'. Below the tabs is a toolbar with various icons. The main window is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the following SQL query:

```
select order#, shipdate from orders
where shipdate > '01-APR-2009';
```

Below the query editor, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed in a table with two columns: 'ORDER#' and 'SHIPDATE'. The table contains 12 rows of data, all of which were fetched in 0.025 seconds.

	ORDER#	SHIPDATE
1	1000	02-APR-09
2	1004	05-APR-09
3	1005	02-APR-09
4	1006	02-APR-09
5	1007	04-APR-09
6	1008	03-APR-09
7	1009	05-APR-09
8	1010	04-APR-09
9	1011	05-APR-09
10	1013	04-APR-09
11	1014	05-APR-09
12	1017	05-APR-09

3. Which books aren't in the Fitness category? List each book title and category.

SELECT Title,Category

FROM BOOKS

WHERE Category <> 'FITNESS';

The screenshot shows a database query tool interface. The top toolbar includes icons for running queries, saving, and other database functions. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT Title,Category
FROM BOOKS
WHERE Category <> 'FITNESS';
```

Below the query editor, the 'Query Result' tab is active, showing the results of the query. The status bar indicates 'All Rows Fetched: 13 in 0.008 seconds'. The results are displayed in a table with two columns: TITLE and CATEGORY.

	TITLE	CATEGORY
1	REVENGE OF MICKEY	FAMILY LIFE
2	BUILDING A CAR WITH TOOTHPICKS	CHILDREN
3	DATABASE IMPLEMENTATION	COMPUTER
4	COOKING WITH MUSHROOMS	COOKING
5	HOLY GRAIL OF ORACLE	COMPUTER
6	HANDCRANKED COMPUTERS	COMPUTER
7	E-BUSINESS THE EASY WAY	COMPUTER
8	PAINLESS CHILD-REARING	FAMILY LIFE
9	THE WOK WAY TO COOK	COOKING
10	BIG BEAR AND LITTLE DOVE	CHILDREN
11	HOW TO GET FASTER PIZZA	SELF HELP
12	HOW TO MANAGE THE MANAGER	BUSINESS
13	SHORTEST POEMS	LITERATURE

4. Which customers live in Georgia or New Jersey? Put the results in ascending order by last name. List each customer's customer number, last name, and state. Write this query in two different ways.

```
SELECT customer#, lastname, state
FROM customers
WHERE STATE = 'NJ' OR STATE = 'GA'
ORDER BY lastname;
```

```
SELECT customer#, lastname, state
FROM customers
WHERE STATE LIKE 'NJ' OR STATE LIKE 'GA'
ORDER BY lastname;
```

The screenshot shows a database query tool interface. The top pane displays two SQL queries. The first query uses exact state names, and the second uses the LIKE operator. The bottom pane shows the results of the first query, which returned 4 rows of customer data.

Query 1:

```
SELECT customer#, lastname, state
FROM customers
WHERE STATE = 'NJ' OR STATE = 'GA'
ORDER BY lastname;
```

Query 2:

```
SELECT customer#, lastname, state
FROM customers
WHERE STATE LIKE 'NJ' OR STATE LIKE 'GA'
ORDER BY lastname;
```

Results:

	CUSTOMER#	LASTNAME	STATE
1	1020	FALAH	NJ
2	1010	LUCAS	GA
3	1018	MONTIASA	GA
4	1019	SMITH	NJ

5. Which orders were placed on or before April 1, 2009? List each order number and order date. Write this query in two different ways.

```
SELECT order#, orderdate
FROM ORDERS
WHERE orderdate <= '01-APR-09';
```

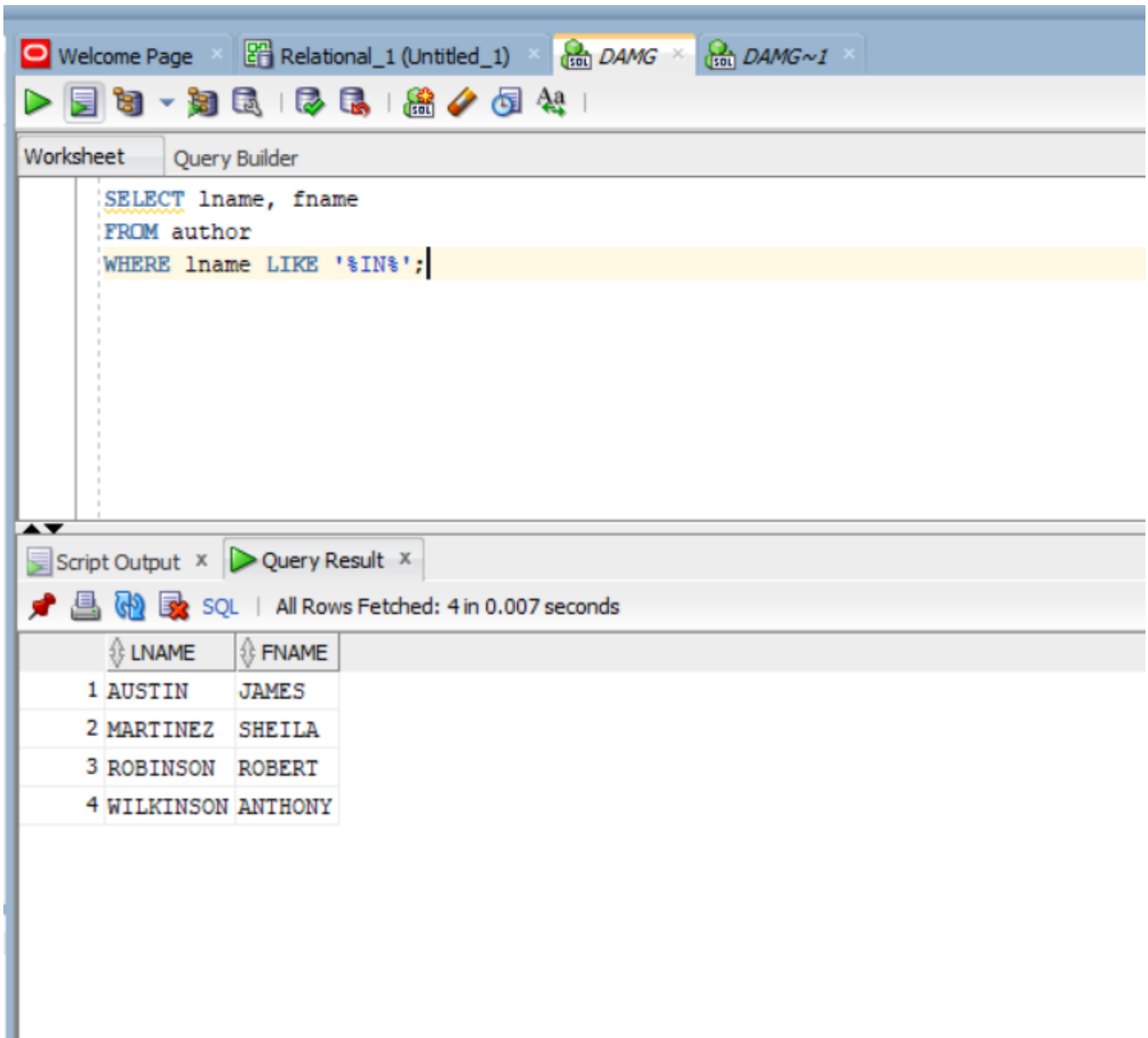
```
SELECT order#, orderdate
FROM ORDERS
WHERE orderdate <'01-APR-09' OR orderdate = '01-APR-09';
```

The screenshot shows a database query tool interface. The top pane displays two SQL queries. The first query uses the condition `orderdate <= '01-APR-09'`, and the second query uses `orderdate <'01-APR-09' OR orderdate = '01-APR-09'`. The bottom pane shows the query results in a table with 7 rows. The status bar indicates 'All Rows Fetched: 7 in 0.009 seconds'.

	ORDER#	ORDERDATE
1	1000	31-MAR-09
2	1001	31-MAR-09
3	1002	31-MAR-09
4	1003	01-APR-09
5	1004	01-APR-09
6	1005	01-APR-09
7	1006	01-APR-09

6. List all authors whose last name contains the letter pattern "IN." Put the results in order of last name, then first name. List each author's last name and first name.

```
SELECT lname, fname
FROM author
WHERE lname LIKE '%IN%';
```



The screenshot shows a database query tool interface. The top toolbar includes icons for running queries, saving, and other database functions. The main window is divided into two tabs: "Worksheet" and "Query Builder". The "Query Builder" tab is active, displaying the following SQL query:

```
SELECT lname, fname
FROM author
WHERE lname LIKE '%IN%';
```

Below the query editor, the "Query Result" tab is active, showing the results of the query. The results are displayed in a table with two columns: "LNAME" and "FNAME". The table contains four rows of data:

	LNAME	FNAME
1	AUSTIN	JAMES
2	MARTINEZ	SHEILA
3	ROBINSON	ROBERT
4	WILKINSON	ANTHONY

The status bar at the bottom indicates "All Rows Fetched: 4 in 0.007 seconds".

7. List all customers who were referred to the bookstore by another customer. List each customer's last name and the number of the customer who made the referral.

```
SELECT lastname, referred
FROM customers
WHERE referred IS NOT NULL;
```

The screenshot shows a database query tool interface. The top toolbar includes icons for running queries, saving, and other database functions. The main window is divided into two panes: 'Worksheet' and 'Query Builder'. The 'Query Builder' pane contains the following SQL query:

```
SELECT lastname, referred
FROM customers
WHERE referred IS NOT NULL;
```

Below the query editor, the 'Script Output' and 'Query Result' panes are visible. The 'Query Result' pane shows the results of the query, indicating that all rows were fetched in 0.009 seconds. The results are displayed in a table with two columns: 'LASTNAME' and 'REFERRED'.

	LASTNAME	REFERRED
1	GIANA	1003
2	PEREZ	1003
3	NGUYEN	1006
4	DAUM	1010
5	SMITH	1003

8. Display the book title and category for all books in the Children and Cooking categories. Create three different queries to accomplish this task:

a) a search pattern operation,

```
SELECT title, category FROM BOOKS  
WHERE category LIKE 'CHILDREN' OR category LIKE 'COOKING';
```

b) a logical operator, and

```
SELECT title, category FROM BOOKS  
WHERE category = 'CHILDREN' OR category = 'COOKING';
```

c) another operator not used in a or b.

```
SELECT title, category FROM BOOKS  
WHERE category IN ('CHILDREN', 'COOKING');
```

The screenshot shows a database query tool interface. The top toolbar includes icons for running queries, saving, and other database functions. The main window is titled 'Query Builder' and contains three SQL queries. The first query uses the LIKE operator, the second uses the = operator, and the third uses the IN operator. The third query is highlighted. Below the queries, the 'Query Result' tab is active, showing a table with two columns: 'TITLE' and 'CATEGORY'. The table contains four rows of data.

	TITLE	CATEGORY
1	BUILDING A CAR WITH TOOTHPICKS	CHILDREN
2	COOKING WITH MUSHROOMS	COOKING
3	THE WOK WAY TO COOK	COOKING
4	BIG BEAR AND LITTLE DOVE	CHILDREN

9. Use a search pattern to find any book title with “A” for the second letter and “N” for the fourth letter. List each book’s ISBN and title. Sort the list by title in descending order.

```
SELECT isbn, title FROM BOOKS
WHERE title LIKE '_A_N%'
ORDER BY title DESC;
```

The screenshot shows a database query tool interface. The top toolbar includes icons for running queries, saving, and other database functions. The main window is divided into two tabs: 'Worksheet' and 'Query Builder'. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT isbn, title FROM BOOKS
WHERE title LIKE '_A_N%'
ORDER BY title DESC;
```

Below the query editor, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The status bar indicates 'All Rows Fetched: 1 in 0.006 seconds'. The results are displayed in a table with two columns: 'ISBN' and 'TITLE'.

	ISBN	TITLE
1	2491748320	PAINLESS CHILD-REARING

10. List the title and publish date of any computer book published in 2005. Perform the task of searching for the publish date by using three different methods:

a) a range operator,

```
SELECT title, pubdate FROM books
WHERE (CATEGORY = 'COMPUTER') AND (PUBDATE BETWEEN '01-JAN-05' AND '31-DEC-05');
```

b) a logical operator, and

```
SELECT title, pubdate FROM books
WHERE (CATEGORY = 'COMPUTER') AND (PUBDATE >= '01-JAN-05' AND PUBDATE <= '31-DEC-05');
```

c) a search pattern operation.

```
SELECT title, pubdate FROM books
WHERE (CATEGORY = 'COMPUTER') AND (PUBDATE LIKE '%05');
```

The screenshot shows a database query tool interface. The top pane displays three SQL queries. The bottom pane shows the results of the third query, which uses the LIKE operator to find books published in 2005.

Query Builder

```
SELECT title, pubdate FROM books
WHERE (CATEGORY = 'COMPUTER') AND (PUBDATE BETWEEN '01-JAN-05' AND '31-DEC-05');

SELECT title, pubdate FROM books
WHERE (CATEGORY = 'COMPUTER') AND (PUBDATE >= '01-JAN-05' AND PUBDATE <= '31-DEC-05');

SELECT title, pubdate FROM books
WHERE (CATEGORY = 'COMPUTER') AND (PUBDATE LIKE '%05');
```

Script Output | **Query Result** | **Query Result 1** | **Query Result 2** | **Query Result 3**

SQL | All Rows Fetched: 2 in 0.006 seconds

	TITLE	PUBDATE
1	HOLY GRAIL OF ORACLE	31-DEC-05
2	HANDCRANKED COMPUTERS	21-JAN-05