ITC 5104 Database Design and SQL

Ankur Prajapati

Assignment 7

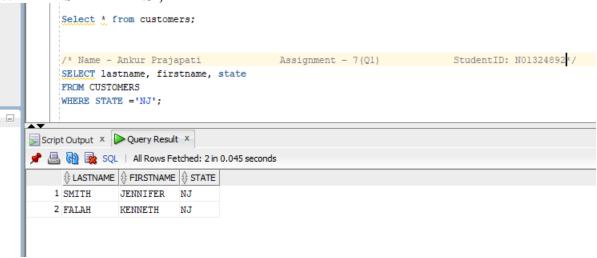
StudentID: N01324892

To perform the following assignments, refer to the tables created in the **JLDB_Build_8.sql** script at the beginning of the chapter. 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

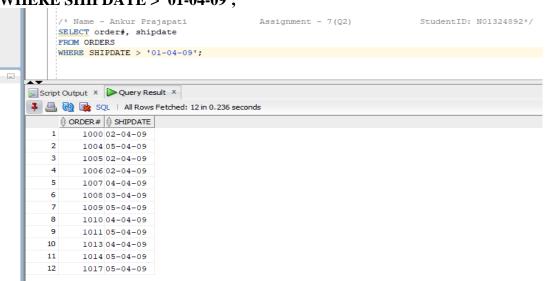
WHERE STATE ='NJ';



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

FROM ORDERS

WHERE SHIPDATE > '01-04-09';

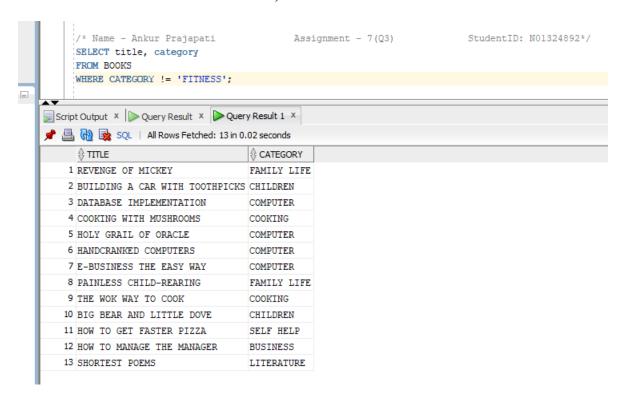


3. Which books aren't in the Fitness category? List each book title and category.

SELECT title, category

FROM BOOKS

WHERE CATEGORY != 'FITNESS';



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.

1st Way:

SELECT customer#, lastname, firstname, state FROM CUSTOMERS WHERE STATE IN ('GA','NJ') ORDER BY lastname;

2nd Wav:

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

```
/* Name - Ankur Prajapati Assignment - 7(Q4)
                                                             StudentID: N01324892*/
  SELECT customer#, lastname, firstname, state
    FROM CUSTOMERS
    WHERE STATE IN ('GA', 'NJ')
    ORDER BY lastname;
  SELECT customer#, lastname, firstname, state
    FROM CUSTOMERS
    WHERE STATE = 'GA' OR STATE = 'NJ'
    ORDER BY lastname;
Script Output X Query Result X Query Result 1 X
📌 🖺 🙀 🗽 SQL | All Rows Fetched: 4 in 0.021 seconds
  1
      1020 FALAH KENNETH NJ
      1010 LUCAS JAKE
   2
                               GA
      1018 MONTIASA GREG
   3
          1019 SMITH JENNIFER NJ
   4
```

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.

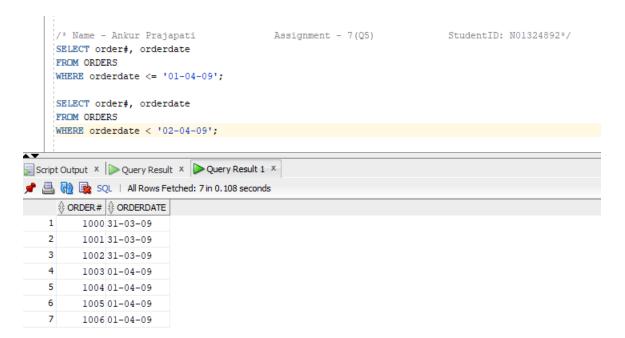
SELECT order#, orderdate

FROM ORDERS

WHERE orderdate <= '01-04-09';

SELECT order#, orderdate FROM ORDERS

WHERE orderdate < '02-04-09';



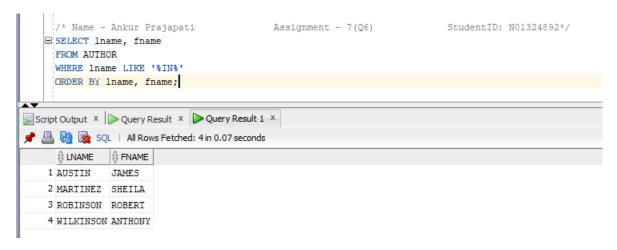
6. List all authors whose last name contains the letter pattern "IN." Put the results in order of last name, then first name. List each author's last name and first name.

SELECT Iname, fname

FROM AUTHOR

WHERE lname LIKE '%IN%'

ORDER BY Iname, fname;

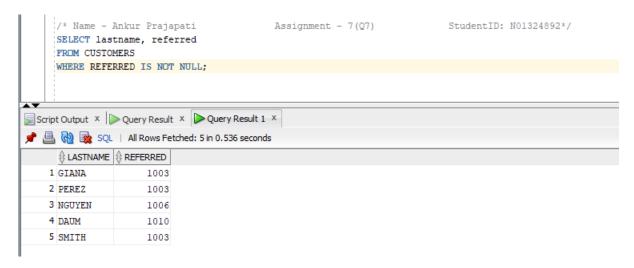


7. List all customers who were referred to the bookstore by another customer. List each customer's last name and the number of the customer who made the referral.

SELECT lastname, referred

FROM CUSTOMERS

WHERE REFERRED IS NOT NULL;



- 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,
 - b) a logical operator, and
 - c) another operator not used in a or b.

SELECT title, category /* Comparison Operators*/
FROM BOOKS
WHERE CATEGORY IN ('CHILDREN','COOKING');

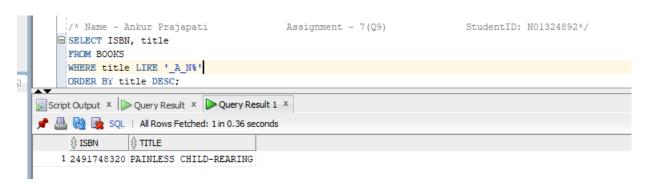
SELECT title, category /*Logical Operators*/
FROM BOOKS
WHERE CATEGORY = 'CHILDREN' OR CATEGORY = 'COOKING';

SELECT title, category FROM BOOKS WHERE CATEGORY LIKE 'C'NN';



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;



- 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,
 - b) a logical operator, and
 - c) a search pattern operation.

SELECT title, pubdate /* Logical Operator*/
FROM BOOKS

WHERE CATEGORY = 'COMPUTER' AND PUBDATE LIKE '%05';

SELECT title, pubdate /* Comparison Operator*/
FROM BOOKS

WHERE (PUBDATE BETWEEN '01-01-05' AND '31-12-05') AND CATEGORY = 'COMPUTER';

SELECT title, pubdate /* Search Pattern Operation*/
FROM BOOKS
WHERE CATEGORY LIKE 'COM%' AND PUBDATE LIKE '%05';

```
/* Name - Ankur Prajapati
                                        Assignment - 7(Q10)
                                                                          StudentID: N01324892*/
    SELECT title, pubdate
    FROM BOOKS
    WHERE (PUBDATE BETWEEN '01-01-05' AND '31-12-05') AND CATEGORY = 'COMPUTER';
    SELECT title, pubdate
    FROM BOOKS
    WHERE CATEGORY = 'COMPUTER' AND PUBDATE LIKE '%05';
    SELECT title, pubdate
    FROM BOOKS
    WHERE CATEGORY LIKE 'COM%' AND PUBDATE LIKE '%05';
Script Output X Query Result X Query Result 1 X
🏲 📇 🙌 攻 SQL | All Rows Fetched: 2 in 0.015 seconds
             ⊕ PUBDATE

    TITLE

   1 HOLY GRAIL OF ORACLE 31-12-05
   2 HANDCRANKED COMPUTERS 21-01-05
```