

LAB EXERCISE 3-1

CLO Code Link: 1

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Score:

Date: **Your paragraph text**

OBJECTIVES

- Evaluate logical comparisons to restrict the rows returned based on two or more conditions
- Apply the rules of precedence to determine the order in which expressions are evaluated and calculated

PART 1. VOCABULARY

Identify the vocabulary word for each definition below

<u>DESC</u>	1. Inverts the value of the condition
<u>AND</u>	2. Both conditions must be true for a record to be selected
<u>AND Then Or</u>	3. Rules that determine the order in which expressions are evaluated and calculated
<u>OR</u>	4. Either condition can be true for a record to be selected

PART 2. TRY AND SOLVE IT

Insert screenshot(s) of the output of your queries if necessary.

1. Execute the two queries below. Why do these nearly identical statements produce two different results? Name the difference and explain why.

```
SELECT code, description
FROM d_themes
WHERE code >200 AND description IN('Tropical', 'Football', 'Carnival');
```

```
SELECT code, description
FROM d_themes
WHERE code >200 OR description IN('Tropical', 'Football', 'Carnival');
```

The first queries displays anything above 200 of the table of d_themes is true on the tropical,football,carnival

The first queries displays anything above 200 of the table of d_themes is only true on the tropical,football,carnival because the requirements both fit

The second queries display between the either requirements of the needed code and description from the d_themes

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Logical Comparisons and Precedence Rules

2. Write the statement to display the last names of all Global Fast Foods employees who have “e” and “i” in their last names.

The screenshot shows the APEX SQL Workshop interface. The SQL command area contains the following query:

```
1 SELECT last_name
2 FROM f_staffs
3 WHERE (last_name LIKE '%e%' OR last_name LIKE '%i%')
4
```

The Results tab is selected, showing a table with the following data:

LAST_NAME
Doe
Miller
Tuttle

3 rows returned in 0.02 seconds. Download

3. Write the statement to know who the Global Fast Foods employees are that make more than \$6.50/hour and their position is not an order taker.

The screenshot shows the APEX SQL Workshop interface. The SQL command area contains the following query:

```
1 SELECT *
2 FROM f_staffs
3 WHERE (salary > 6.50 AND staff_type != 'Order Taker')
4 OR staff_type = 'Manager';
```

The Results tab is selected, showing a table with the following data:

ID	FIRST_NAME	LAST_NAME	BIRTHDATE	SALARY	OVERTIME_RATE	TRAINING	STAFF_TYPE	MANAGER_ID	MANAGER_BUDGET	MANAGER_TARGET
9	Bob	Miller	3/19/1979	10	-	Grill	Cook	19	-	-
19	Monique	Tuttle	3/30/1969	60	-	-	Manager	-	50000	70000

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Logical Comparisons and Precedence Rules

4. Using the employees table, write a query to display all employees whose last names start with “D” and have “a” and “e” anywhere in their last name.

The screenshot shows the APEX SQL Workshop interface. The SQL command area contains the following query:

```
1 SELECT last_name
2 FROM employees
3 WHERE (last_name LIKE 'D%' AND last_name LIKE '%a%' AND last_name LIKE '%e%')
```

The results pane shows the following output:

LAST_NAME
Davies
De Haan

5. Write the statement to display in which venues DJs on Demand have events that were not in private homes.

The screenshot shows the APEX SQL Workshop interface. The SQL command area contains the following query:

```
1 SELECT address
2 FROM D_VENUES
3 WHERE loc_type NOT IN ('Private Home');
```

The results pane shows the following output:

ADDRESS
4 Mahogany Drive, Boston, MA 10010
87 Park Avenue, San Diego, CA 28978
200 Pennsylvania Ave, Washington D.C. 09002

6. Which list of operators is in the correct order from highest precedence to lowest precedence?

- a. AND, NOT, OR
- b. NOT, OR, AND
- c. NOT, AND, OR

Answer: **C**

For questions 7 and 8, write SQL statements that will produce the desired output.

7. Who am I?

I was hired by Oracle after May 1998 but before June of 1999. My salary is less than \$8000 per month, and I have an “en” in my last name.

```
SELECT *  
FROM employees  
WHERE hire_date > '05-31-1998'  
AND hire_date < '06-01-1999'  
AND salary < 8000  
AND last_name LIKE '%en%'
```

8. What's my email address?

Because I have been working for Oracle since the beginning of 1996, I make more than \$9000 per month. Because I make so much money, I don't get a commission

```
SELECT *  
FROM employees  
WHERE hire_date > '01-01-1998'  
AND salary > 9000  
AND commission_pct IS NOT NULL
```