



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

**SECD2523
DATABASE**

SECTION 10

SQL LAB 3 - DML 2 PART 6

PREPARED FOR:

MADAM ROZILAWATI BINTI DOLLAH @ MD ZAIN

PREPARED BY:

BATRIESYA IRDINA BINTI KHAIRUL HEZAL	A22EC0141
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Section 6 Lesson 8 Exercise 2: Sorting Data Using ORDER BY

Part 1: TOP-N-ANALYSIS (S6L8 Objective 3)

1. The customers are numbered sequentially with each new customer being assigned a higher customer number. Use TOP-N-ANALYSIS to only show the first and the last name of the first three customers. Show the customers first and last name in the same column using Customer Name as the column alias.

```
- SELECT ROWNUM AS "Order of Membership", first_name || ' ' || last_name AS "Customer Name"
FROM
(SELECT first_name, last_name FROM customers ORDER BY
ctr_number)
WHERE ROWNUM <=3;
```

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command entered is:

```
1 SELECT ROWNUM AS "Order of Membership", first_name || ' ' || last_name AS "Customer Name"
2 FROM
3 (SELECT first_name, last_name FROM customers ORDER BY
4  ctr_number)
5 WHERE ROWNUM <=3;
```

The results are displayed in a table with two columns: "Order of Membership" and "Customer Name".

Order of Membership	Customer Name
1	Robert Thornberry
2	Jennifer Jones
3	John Doe

3 rows returned in 0.01 seconds. The interface also shows the user "BTRIESYA IRDINA" and the schema "WKSP_SQL2DML".

Part 2: Using a Substitution Variable (S6L8 Objective 4)

1. Use a substitution variable that will allow you to enter the commission rate for the sales representatives. The first and last names should be displayed on the screen for any sales representatives that earn that commission rate and the output should be ordered by their last name. Use an appropriate alias for your column headings.

```
- SELECT first_name || ' ' || last_name AS "Sales Representatives"
FROM sales_representatives
```

WHERE commission_rate = :commission_rate
ORDER BY last_name;

Enter Bind Variables - Google Chrome

apex.oracle.com/pls/apex/f?p=4500:138:17195993284950::

Submit

Bind Variable	Value
:COMMISSION_RATE	5

APEX

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BATRIESYA IRDINA

sql2-dml

SQL Commands

Schema WKSP_SQL2DML

Language SQL

Rows 10

Clear Command

Find Tables

Save

Run

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1 SELECT first_name || ' ' || last_name AS "Sales Representatives"

2 FROM sales_representatives

3 WHERE commission_rate = :commission_rate

4 ORDER BY last_name;

Results

Explain

Describe

Saved SQL

History

Sales Representatives

Barry Speed

Victoria Wright

2 rows returned in 0.01 seconds

Download

batriesyairdina@graduate.utm.my

sql2-dml

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Oracle APEX 23.21