



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**SECD2523 - DATABASE**

**SECTION 10**

**SQL 3 : DML 2 PART 6**

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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 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.

The screenshot shows an SQL IDE interface. At the top, there's a 'SQL Commands' tab. Below it, a toolbar includes 'Language' (set to SQL), 'Rows' (set to 10), 'Clear Command', and 'Find Tables'. The main editor contains the following SQL query:

```
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 ctr_number)
4 WHERE ROWNUM <= 3;
```

Below the editor, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, displaying a table with two columns: 'Order of Membership' and 'Customer Name'. The table contains three rows of data:

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

Below the table, it says '3 rows returned in 0.03 seconds' and provides a 'Download' link. At the bottom of the IDE, there's a footer with user information, a copyright notice 'Copyright © 1999, 2023, Oracle and/or its affiliates.', and the version 'Oracle APEX 23.21'.

### 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 to 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.

The screenshot shows an APEX form titled 'Bind Variable'. It has a 'Submit' button in the top right corner. The form consists of two columns: 'Bind Variable' and 'Value'. The 'Bind Variable' column contains the text ':COMMISSION\_RATE'. The 'Value' column contains a text input field with the number '5' entered.

Bind Variable	Value
:COMMISSION_RATE	5

↑ SQL Commands

Schema WKSP\_SQL1ANNHAZEL

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

no data found

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Oracle APEX 23.2.1