



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SCHOOL OF COMPUTING
SESSION 2023/2024, SEMESTER 3
SECD2523 - DATABASE
SECTION 10

SQL LAB 3 - DML2 PART6

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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 the APEX SQL Workshop interface. The SQL command is:

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

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

Order od Membership	Customer Name
1	RobertThornberry
2	JenniferJones
3	JohnDoe

3 rows returned in 0.02 seconds

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 the APEX SQL Workshop interface. The SQL command is:

```
1 SELECT first_name || '||' last_name AS "Sales Representatives"
2 FROM sales_representatives
3 WHERE commission_rate=:commission_rate
4 ORDER BY last_name;
```

The results are displayed in a table with one column: "Sales Representatives".

Sales Representatives
CharlesRaymond

1 rows returned in 0.00 seconds