



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**SECD 2523 - 10**  
**(DATABASE)**

**LAB 3: SQL 3 DML 2**

**PART 6**

**PREPARED FOR:**

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**SEMESTER 20232024 – 1**

**SECTION 10**

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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.

```
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;
```

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

3 rows returned in 0.01 seconds   [Download](#)

### 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  
Commission speed = 5

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

Sales Representatives
Barry Speed
Victoria Wright

2 rows returned in 0.02 seconds   [Download](#)