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**FACULTY OF COMPUTING**  
UTM Johor Bahru

**SECD2523**  
**SECTION 10**

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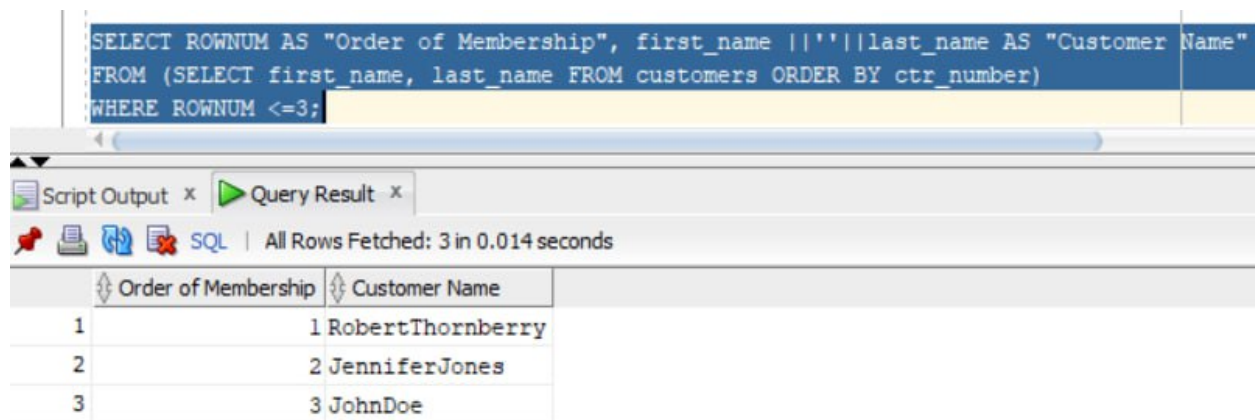
**PROJECT TITLE:**  
**SQL LAB3**  
**(DML2)**  
**PART6**

NAME	MATRIC NUMBER
NADIA SYAHADAH BINTI SAHARUDIN	A22EC0225

### 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;
```



The screenshot shows a SQL query execution window with two tabs: 'Script Output' and 'Query Result'. The 'Query Result' tab is active, displaying the query and its results. The query is:   
**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 results are shown in a table with two columns: 'Order of Membership' and 'Customer Name'. The results are:   
1 RobertThornberry  
2 JenniferJones  
3 JohnDoe

Order of Membership	Customer Name
1	1 RobertThornberry
2	2 JenniferJones
3	3 JohnDoe

### 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

```
ACCEPT commission_rate NUMBER PROMPT 'Enter Commission Rate: '  
SELECT first_name ||' '||last_name AS "Sales Representatives"  
FROM sales_representatives  
WHERE commission_rate = :commission_rate  
ORDER BY last_name;
```

```
ACCEPT commission_rate NUMBER PROMPT 'Enter Commission Rate: '
SELECT first_name AS "First Name", last_name AS "Last Name"
FROM sales_representatives
WHERE commission_rate = :commission_rate
ORDER BY last_name;
```

Enter Value

Enter Commission Rate:

5

OK Cancel

ScriptRunner Task

SQL Error: ORA-00904: CURRENT\_TIMESTAMP: invalid identifier

\*Cause:

```
ACCEPT commission_rate NUMBER PROMPT 'Enter Commission Rate: '
SELECT first_name AS "First Name", last_name AS "Last Name"
FROM sales_representatives
WHERE commission_rate = :commission_rate
ORDER BY last_name;
```

Script Output x | Query Result x | Query Result 1 x | Query Result 2 x

SQL | All Rows Fetched: 2 in 0.005 seconds

	First Name	Last Name
1	Barry	Speed
2	Victoria	Wright