



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 - DATABASE

SECTION 10

SQL 3 : DML 2 PART 6

PREPARED FOR:

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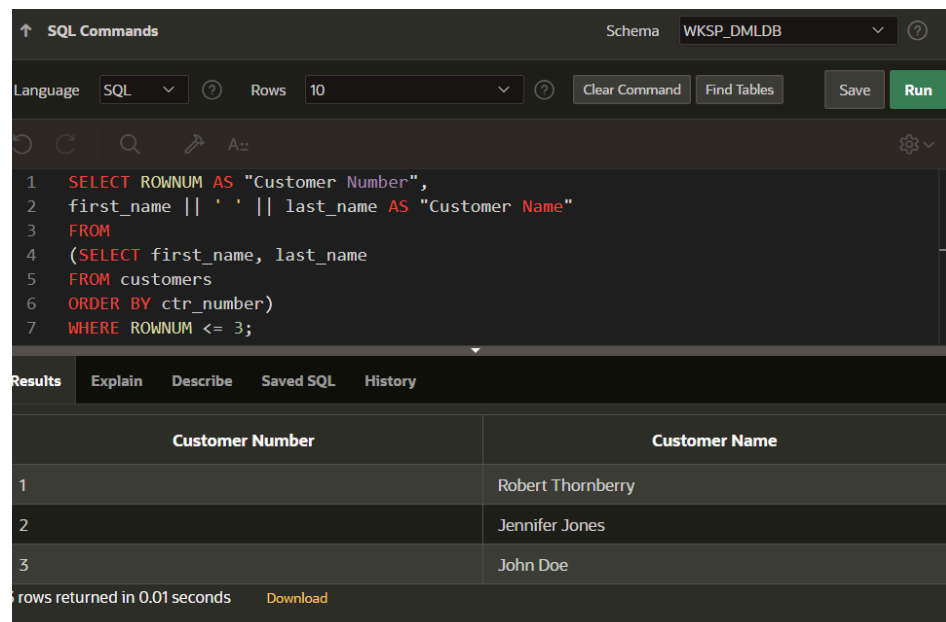
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Section 6 Lesson 8 Exercise 2: Sorting Data Using ORDER BY

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 SQL Developer interface. The top bar indicates the schema is 'WKSP_DMLDB'. The SQL Commands window contains the following query:

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

The Results window shows the output of the query:

Customer Number	Customer Name
1	Robert Thornberry
2	Jennifer Jones
3	John Doe

At the bottom, it states '3 rows returned in 0.01 seconds' and provides a 'Download' link.

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.

Submit

Bind Variable	Value
:COMMISSION_RATE	5

Language SQL Rows 10 Clear Command Find Tables Save Run

A:

```
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