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UNIVERSITI TEKNOLOGI MALAYSIA

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SCHOOL OF COMPUTING, UTMJB  
SEMESTER 1, SESSION 2023/2024

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# **LAB 3: PART 6**

**SECD2523: DATABASE**  
**SECTION 10**

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## Database Design Project

### Oracle Baseball League Store Database

#### Project Scenario:

You are a small consulting company specializing in database development. You have just been awarded the contract to develop a data model for a database application system for a small retail store called Oracle Baseball League (OBL).

The Oracle Baseball League store serves the entire surrounding community selling baseball kit. The OBL has two types of customer, there are individuals who purchase items like balls, cleats, gloves, shirts, screen printed t-shirts, and shorts. Additionally customers can represent a team when they purchase uniforms and equipment on behalf of the team.

Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players. When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.

## 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.

```
1 v SELECT ROWNUM AS "No", first_name || ' ' || last_name AS "Customer Name"
2 FROM
3     (SELECT first_name, last_name
4      FROM customers
5      ORDER BY ctr_number)
6 WHERE ROWNUM <=3;
```

No	Customer Name
1	Robert Thornberry
2	Jennifer Jones
3	John Doe

## 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 SQL Worksheet interface. The Query Builder tab is active, displaying the following SQL query:

```
SELECT first_name AS "First Name",  
       last_name AS "Last Name",  
       commission_rate AS "Commission Rate"  
FROM sales_representatives  
WHERE commission_rate = &commission_rate  
ORDER BY last_name;
```

An "Enter Substitution Variable" dialog box is open, prompting the user to "Enter value for commission\_rate:". The value "5" is entered in the text field. The dialog has "OK" and "Cancel" buttons.

Below the dialog, the "Query Result" tab is active, showing the results of the query. The status bar indicates "All Rows Fetched: 2 in 0.012 seconds". The results are displayed in a table with three columns: First Name, Last Name, and Commission Rate.

	First Name	Last Name	Commission Rate
1	Barry	Speed	5
2	Victoria	Wright	5