



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

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

SQL LAB 3 - DML2 PART4

PREPARED FOR:
DR ROZILAWATI BINTI DOLLAH @ MD ZAIN

PREPARED BY:

NURUL IZZAH BINTI RASHID	A22EC0256
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Section 6 Lesson 7 Exercise 2: Restricting Data Using WHERE

Limit rows using WHERE (S6L7 Objective 1)

In this exercise you will refine the data that is returned in your query by adding a WHERE clause to your SELECT statement.

Part 1: Using the NULL Conditions

1. Write a query that will display information for teams that don't receive a discount in the following format:

The Rovers team has 25 players and does not receive a discount.

Use Team Information as the column alias.

The screenshot shows the APEX SQL Workshop interface. The SQL command is: `SELECT 'The '||name||' team has '||number_of_players||' players and does not receive a discount.' AS "Team Information" FROM teams WHERE discount IS NULL;`. The results show one row: "The Rovers team has 8 players and does not receive a discount.".

Team Information
The Rovers team has 8 players and does not receive a discount.

1 rows returned in 0.03 seconds

2. Write a query that will display information for only teams that receive a discount in the following format:

The Rockets team has 25 players and receives a discount of 10 percent.

Use Team Information as the column alias.

The screenshot shows the APEX SQL Workshop interface. The SQL command is: `SELECT 'The '||name||' team has '||number_of_players||' players and receives a discount of '||discount||' percent.' AS "Team Information" FROM teams WHERE discount IS NOT NULL;`. The results show three rows: "The Rockets team has 25 players and receives a discount of 10 percent.", "The Celtics team has 42 players and receives a discount of 20 percent.", and "The Jets team has 10 players and receives a discount of 5 percent.".

Team Information
The Rockets team has 25 players and receives a discount of 10 percent.
The Celtics team has 42 players and receives a discount of 20 percent.
The Jets team has 10 players and receives a discount of 5 percent.

3 rows returned in 0.02 seconds

Part 2: Logical Operators: AND

1. Write a query that will display the customer number, address line 1 and postal code for customers that live in the starford area of Liverpool. Use Customer Number, Street Address and Postal Code as the column aliases.

The screenshot shows the APEX SQL Workshop interface. The SQL command is as follows:

```
1 SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"
2 FROM customers_addresses
3 WHERE city = 'Liverpool' AND address_line_2 = 'Starford';
```

The results table shows one row:

Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK

1 rows returned in 0.04 seconds

Part 3: Logical Operators: OR

1. Write a query that will display the customer number, address line 1 and postal code for customers that live in either starford or Liverpool in general. Use Customer Number, Street Address and Postal Code as the column aliases.

The screenshot shows the APEX SQL Workshop interface. The SQL command is as follows:

```
1 SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"
2 FROM customers_addresses
3 WHERE city='Liverpool' OR address_line_2='Standford';
```

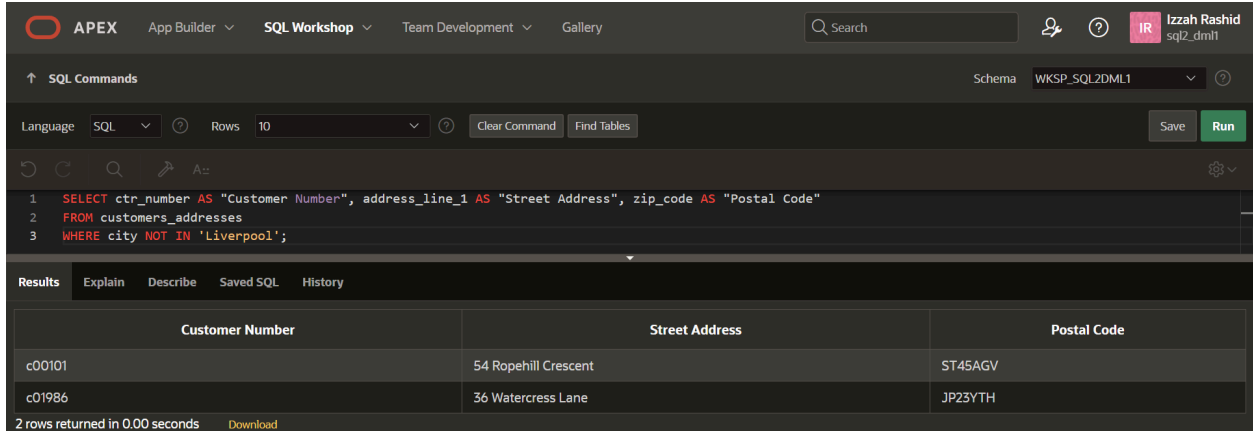
The results table shows two rows:

Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK
c00001	63 Acacia Drive	LP83JHR

2 rows returned in 0.02 seconds

Part 4: Logical Operators: NOT Equal To

1. Write a query that will display the customer number, address line 1 and postal code for customers that do not live in Liverpool. Use Customer Number, Street Address and Postal Code as the column aliases.



The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Izzah Rashid' are also present. The 'SQL Commands' section shows a query with three lines: a SELECT statement with aliases, a FROM clause, and a WHERE clause using the NOT IN operator. The 'Results' tab is active, displaying a table with three columns: 'Customer Number', 'Street Address', and 'Postal Code'. Two rows of data are shown. At the bottom, it indicates '2 rows returned in 0.00 seconds' and provides a 'Download' link.

```
1 SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"
2 FROM customers_addresses
3 WHERE city NOT IN 'Liverpool';
```

Customer Number	Street Address	Postal Code
c00101	54 Ropehill Crescent	ST45AGV
c01986	36 Watercress Lane	JP23YTH

2 rows returned in 0.00 seconds [Download](#)