



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

**SECD2523
DATABASE**

SECTION 10

SQL LAB 3 - DML 2 PART 4

PREPARED FOR:

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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.

- **SELECT 'The ' || name || ' team has ' || number_of_players || ' Players does not receive a discount.' AS "Team Information"**
FROM teams
WHERE discount IS NULL;

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The user is logged in as 'BATRIESYA IRDINA' with the role 'sql2-dml'. The 'SQL Commands' tab is active, showing a query with three lines:
1. `SELECT 'The ' || name || ' team has ' || number_of_players || ' players and does not receive a discount.' AS "Team Information"`
2. `FROM teams`
3. `WHERE discount IS NULL;`
The 'Results' tab is selected, displaying a table with the column alias 'Team Information'. The table contains one row: 'The Rovers team has 8 players and does not receive a discount.' Below the table, it states '1 rows returned in 0.01 seconds' and provides a 'Download' link. The footer shows the user's email 'batriesyairdina@graduate.utm.my', the role 'sql2-dml', the language 'en', the copyright notice 'Copyright © 1999, 2023, Oracle and/or its affiliates.', and the version 'Oracle APEX 23.21'.

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.

- **SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receive a discount of ' || discount || ' percents.' AS "Team Information"**
FROM teams
WHERE discount IS NOT NULL;

APEX App Builder SQL Workshop Team Development Gallery

Search

BI BATRIESYA IRDINA sql2-dml

SQL Commands Schema WKSP_SQL2DML

Language SQL Rows 10 Clear Command Find Tables Save Run

```

1 SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receive a discount of ' || discount || ' percents.' AS "Team Information"
2 FROM teams
3 WHERE discount IS NOT NULL;

```

Results Explain Describe Saved SQL History

Team Information

The Rockets team has 25 players and receive a discount of 10 percents.

The Celtics team has 42 players and receive a discount of 20 percents.

The Jets team has 10 players and receive a discount of 5 percents.

3 rows returned in 0.01 seconds Download

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Part 2: Logical Operators - AND

- 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.
 - SELECT** ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"
FROM customers_addresses
WHERE city = 'Liverpool' **AND** address_line_2 = 'Starford';

APEX App Builder SQL Workshop Team Development Gallery

Search

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SQL Commands Schema WKSP_SQL2DML

Language SQL Rows 10 Clear Command Find Tables Save Run

```

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';

```

Results Explain Describe Saved SQL History

Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK

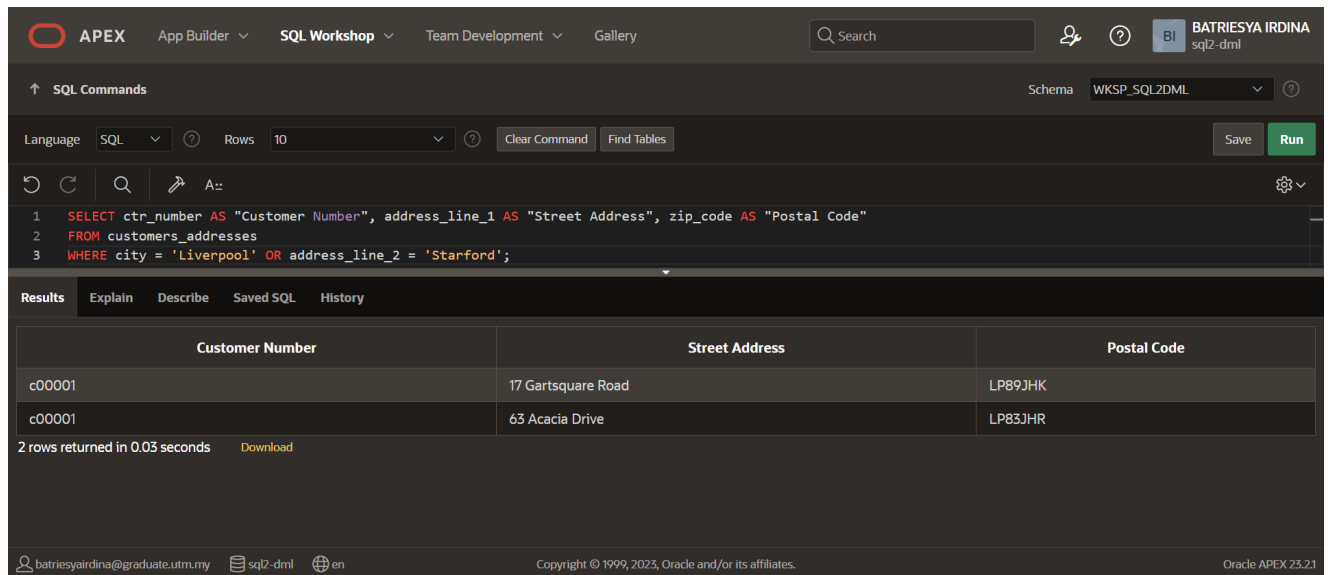
1 rows returned in 0.02 seconds Download

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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.

- **SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"**
FROM customers_addresses
WHERE city = 'Liverpool' OR address_line_2 = 'Starford';



The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command entered is:

```
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 = 'Starford';
```

The results tab shows 2 rows returned in 0.03 seconds. The data is as follows:

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

At the bottom of the interface, the footer text reads: "Copyright © 1999, 2023, Oracle and/or its affiliates. Oracle APEX 23.2.1".

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.

- **SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"**
FROM customers_addresses
WHERE city NOT IN 'Liverpool';

APEX

App Builder

SQL Workshop

Team Development

Gallery

Search

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BATRIESYA IRDINA

sql2-dml

SQL Commands

SchemaWKSP_SQL2DML

LanguageSQLRows10Clear CommandFind TablesSaveRun

A:

1SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"

2FROM customers_addresses

3WHERE city NOT IN 'Liverpool';

Results

Explain

Describe

Saved SQL

History

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

2 rows returned in 0.00 secondsDownload

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sql2-dml

en

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