



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 - DATABASE

SECTION 10

SQL 3 : DML 2 PART 4

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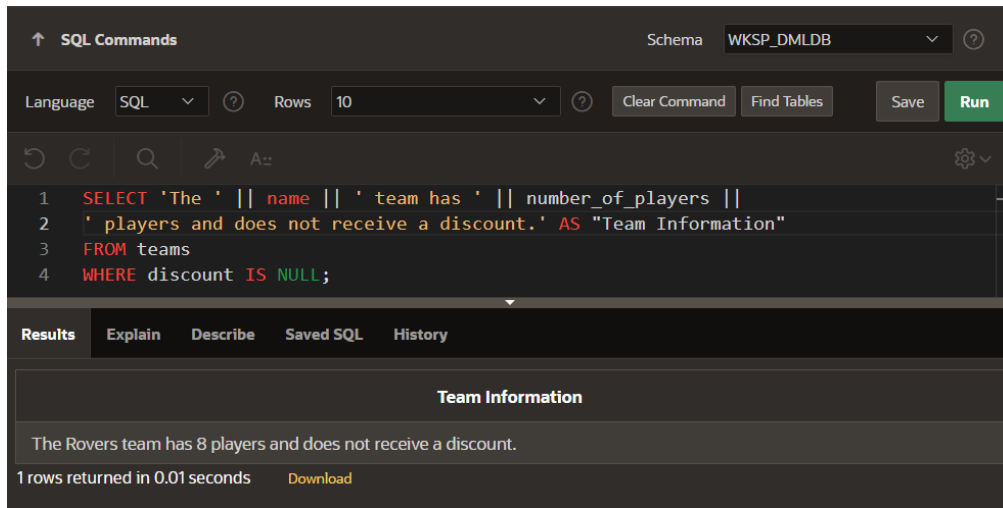
Section 6 Lesson 7 Exercise 2: Restricting Data Using WHERE

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 a SQL IDE interface. At the top, there's a 'SQL Commands' tab and a 'Schema' dropdown set to 'WKSP_DMLDB'. Below this, there's a 'Language' dropdown set to 'SQL', a 'Rows' limit of '10', and buttons for 'Clear Command', 'Find Tables', 'Save', and 'Run'. The main area contains a SQL query:

```
1 SELECT 'The ' || name || ' team has ' || number_of_players ||  
2 ' players and does not receive a discount.' AS "Team Information"  
3 FROM teams  
4 WHERE discount IS NULL;
```

Below the query, there's a 'Results' tab with sub-tabs for 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, showing a table with the header 'Team Information' and one row: 'The Rovers team has 8 players and does not receive a discount.' At the bottom, it says '1 rows returned in 0.01 seconds' and has a 'Download' button.

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.

SQL Commands Schema WKSP_DMLDB

Language SQL Rows 10 Clear Command Find Tables Save Run

```

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

```

Results Explain Describe Saved SQL History

Team Information
The Rockets team has 25 players and receive a discount 10 percents.
The Celtics team has 42 players and receive a discount 20 percents.
The Jets team has 10 players and receive a discount 5 percents.

3 rows returned in 0.01 seconds Download

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 stratford area of Liverpool. Use Customer Number, Street Address and Postal Code as the column aliases.

SQL Commands Schema WKSP_DMLDB

Language SQL Rows 10 Clear Command Find Tables Save Run

```

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

```

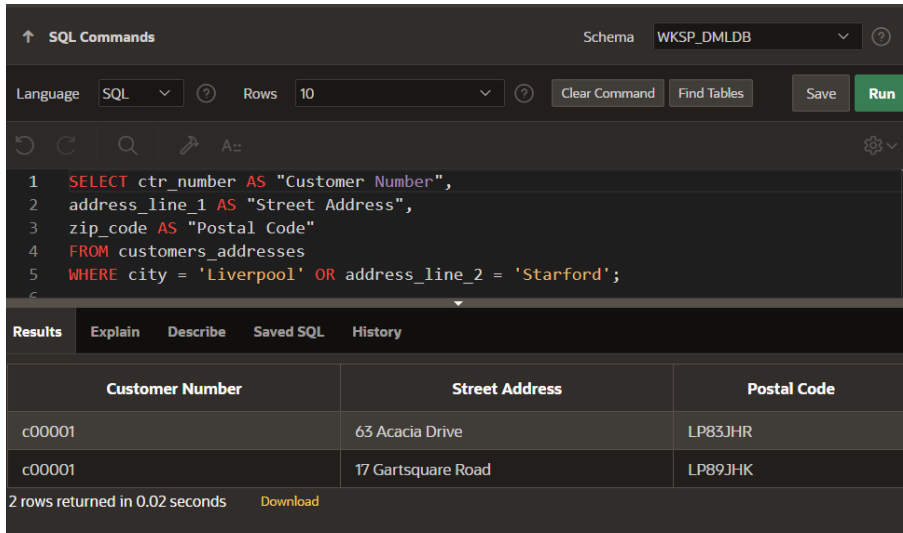
Results Explain Describe Saved SQL History

Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK

1 rows returned in 0.02 seconds Download

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 SQL Developer interface with the following SQL query:

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

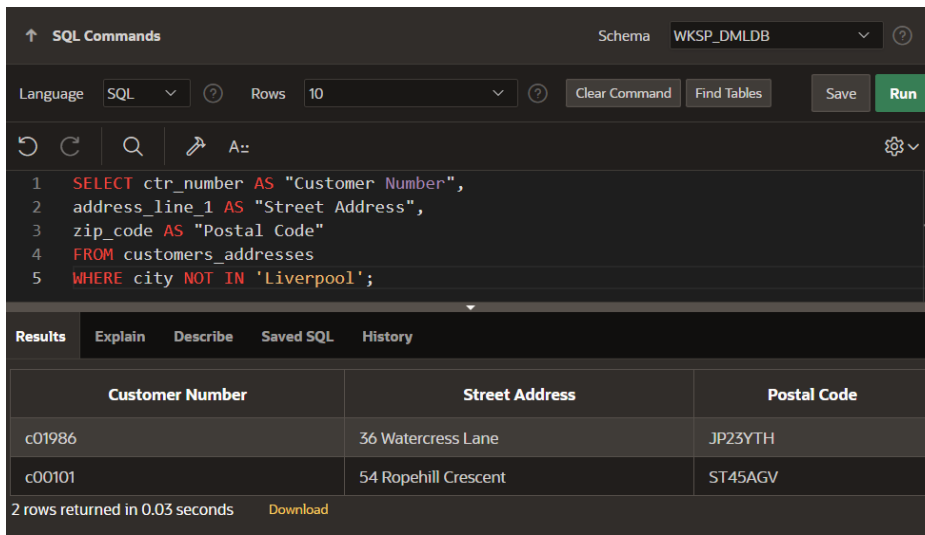
The Results tab displays the following data:

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

2 rows returned in 0.02 seconds [Download](#)

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 SQL Developer interface with the following SQL query:

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

The Results tab displays the following data:

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

2 rows returned in 0.03 seconds [Download](#)