



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 - DATABASE

SECTION 10

SQL 3 : DML 2 PART 2

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2. Obl is considering giving a gift card to all its customers of 5.00 that can be used to reduce their current balance. Write a query that will show the customers first name, last name, customer number, current balance and the value of their balance minus the gift value.

SQL Commands Schema WKSP_DMLDB

Language SQL Rows 10 Clear Command Find Tables Save Run

```

1 SELECT first_name, last_name, ctr_number, current_balance, current_balance-5 AS new_current_balance
2 FROM customers;

```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	CTR_NUMBER	CURRENT_BALANCE	NEW_CURRENT_BALANCE
Robert	Thornberry	c00001	150	145
Andrew	Murcia	c00103	85	80
Maria	Galant	c01986	125.65	120.65
Jennifer	Jones	c00012	0	-5
John	Doe	c00101	987.5	982.5
Brian	Rogers	c02001	50	45

6 rows returned in 0.01 seconds Download

3. What would be the problem with implementing this scheme?

The current balance with a value of less than 5 will be a negative value after applying the gift card with a value of 5 that will be reduced from their current balance.

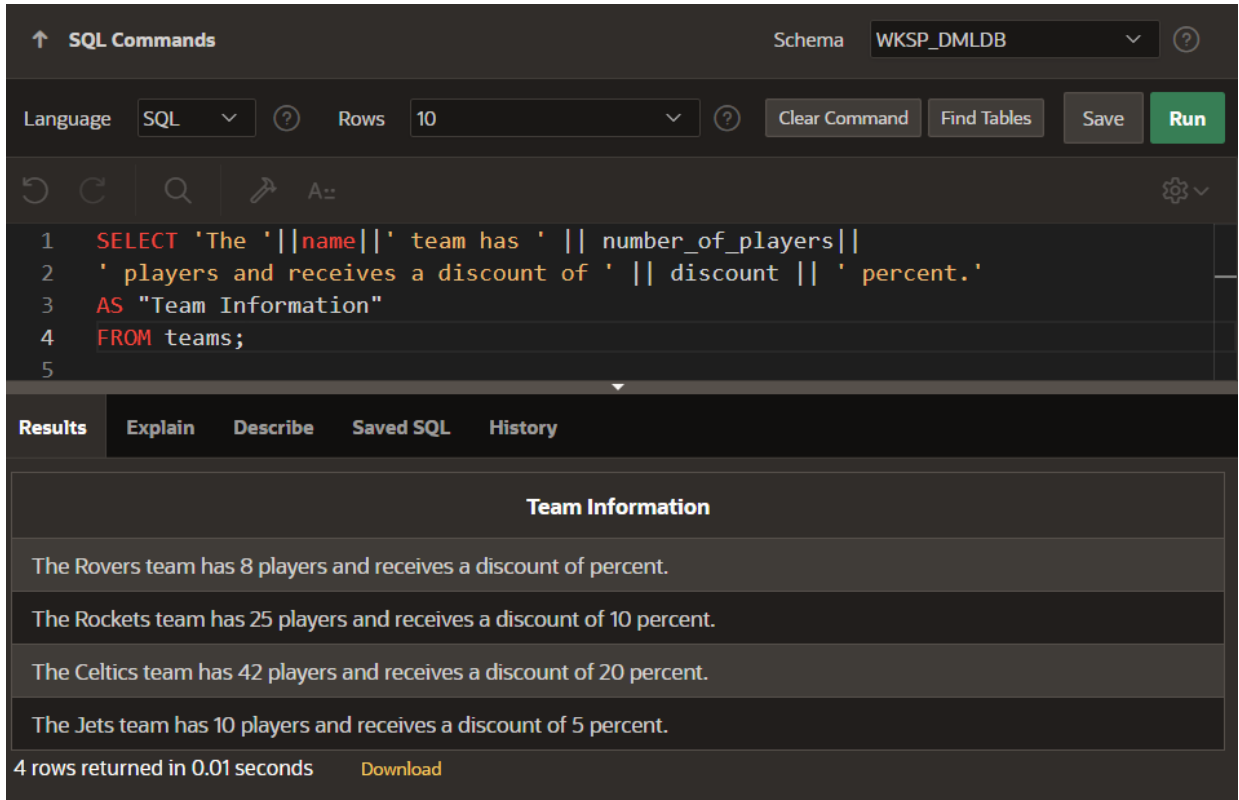
Part 2 : Using Column Aliases

1. You previously wrote a query that displayed the customer's first name, last name, current balance and monthly payment. Rewrite the query to use First Name, Last Name, Balance and Monthly Repayments as the column aliases. The aliases are to be shown exactly as described (case sensitive).

[illegible]

Part 3: Using Literal Character Strings

1. Write a query that will display the team information 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 a SQL IDE interface. At the top, the 'SQL Commands' tab is active, and the schema is set to 'WKSP_DMLDB'. The language is 'SQL' and the number of rows to display is '10'. The query editor contains the following SQL code:

```
1 SELECT 'The ' || name || ' team has ' || number_of_players ||  
2 ' players and receives a discount of ' || discount || ' percent.'  
3 AS "Team Information"  
4 FROM teams;  
5
```

Below the query editor, the 'Results' tab is active, showing the output of the query. The results are displayed as a table with one column, 'Team Information', and four rows of data:

Team Information
The Rovers team has 8 players and receives a discount of percent.
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.

At the bottom of the results section, it states '4 rows returned in 0.01 seconds' and provides a 'Download' link.

2. Why does the last team not show a discount?

Team Rovers do not show a value of discount because their team has a NULL value for the discount column.