



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 - DATABASE

SECTION 10

SQL 3 : DML 2 PART 2

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Write and Execute SELECT statements (S6L6 Objective 2)

Part 1: Using Arithmetic Operators

- [illegible]

- 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.

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

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

Part 2 : Using Column Aliases

1. You previously wrote a query that display 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).

SQL Commands
Schema WKSP_SQLANNHAZEL ?

Language SQL ▾ ⌕ Rows 10 ▾ ⌕
 Clear Command Find Tables Save Run

```

1 SELECT first_name AS "First Name", last_name AS "Last Name", current_balance AS "Balance", current_balance/12 AS "Monthly_Repayments"
2 FROM customers;
```

Results Explain Describe Saved SQL History

First Name	Last Name	Balance	Monthly_Repayments
Robert	Thornberry	150	12.5
Andrew	Murcia	85	7.08333333333333333333333333333333
Brian	Rogers	50	4.16666666666666666666666666666667
Jennifer	Jones	0	0
John	Doe	987.5	82.291666666666666666666666666667
Maria	Galeant	125.65	10.47083333333333333333333333333333

6 rows returned in 0.01 seconds **Download**

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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.

SQL Commands

Schema

WKSP_SQL1ANNHAZEL

Language

SQL

Rows

10

Clear Command

Find Tables

Save

Run

1

SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receives a discount of ' || discount || ' percent.'

2

AS "Team Information"

3

FROM teams;

Results

Explain

Describe

Saved SQL

History

Team Information

The Jets team has 10 players and receives a discount of 5 percent.

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

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

The Celtics team has 42 players and receives a discount of 20 percent.

4 rows returned in 0.01 seconds

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

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