



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

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SEMESTER 1, SESSION 2023/2024

LAB 3 – DML 2 PART 2

SECD2523: DATABASE

SECTION 10

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Section 6 Lesson 6 Exercise 2: Retrieving Data Using SELECT

PART 1: Using Arithmetic Operators

1.

[illegible]

2.

```
1 SELECT
2     first_name,
3     last_name,
4     ctr_number,
5     current_balance,
6     current_balance - 5.00 AS balance_after_gift
7 FROM customers;
```

Results Explain Describe Saved SQL History

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

6 rows returned in 0.04 seconds [Download](#)

3. The problem with the scheme is that it doesn't account for customers with a balance less than \$5.00, potentially resulting in a negative adjusted balance.

PART 2: Using Column Aliases

1.

```
1 SELECT
2   first_name AS "First Name",
3   last_name AS "Last Name",
4   current_balance AS "Balance",
5   current_balance / 12 AS "Monthly Repayments"
6 FROM customers ;
```

First Name	Last Name	Balance	Monthly Repayments
Brian	Rogers	50	4.166666666666666666666666666667
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
John	Doe	9875	82.2916666666666666666666666667
Andrew	Murcia	85	7.0833333333333333333333333333
Maria	Galant	125.65	10.4708333333333333333333333333

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

PART 3: Using Literal Character Strings

1.

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

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

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

2. The absence of a discount display for the last team could be attributed to the fact that the discount value for that specific team in the teams table is set to NULL.