



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**FACULTY OF COMPUTING**  
UTM Johor Bahru

**SECD2523**

**SECTION**

**10**

**LECTURER: ROZILAWATI BINTI DOLLAH @ MD ZAIN**

**PROJECT TITLE:**

**SQL LAB3**

**(DML2)**

**PART2**

NAME	MATRIC NUMBER
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1. Every customer has been told they can pay off their current balance over a 12 month period. Display the customer's first name, last name, current balance and monthly payment.

[illegible]

- ```
SELECT first_name,last_name,current_balance,current_balance-5.00 AS  
adjusted_balance  
FROM customers;
```

```
SELECT first_name,last_name,ctr_number,current_balance,current_balance - 5.00 AS adjusted_balance
FROM customers;
```

Script Output x Query Result x

SQL | All Rows Fetched: 6 in 0.012 seconds

|   | FIRST_NAME | LAST_NAME  | CTR_NUMBER | CURRENT_BALANCE | ADJUSTED_BALANCE |
|---|------------|------------|------------|-----------------|------------------|
| 1 | Robert     | Thornberry | c00001     | 150             | 145              |
| 2 | Jennifer   | Jones      | c00012     | 0               | -5               |
| 3 | John       | Doe        | c00101     | 987.5           | 982.5            |
| 4 | Andrew     | Murcia     | c00103     | 85              | 80               |
| 5 | Maria      | Galant     | c01986     | 125.65          | 120.65           |
| 6 | Brian      | Rogers     | c02001     | 50              | 45               |

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

ANSWER: If the current value before deduction is less than RM5.00, the new balance after deducting RM5.00 from the gift card can be negative.

## 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).

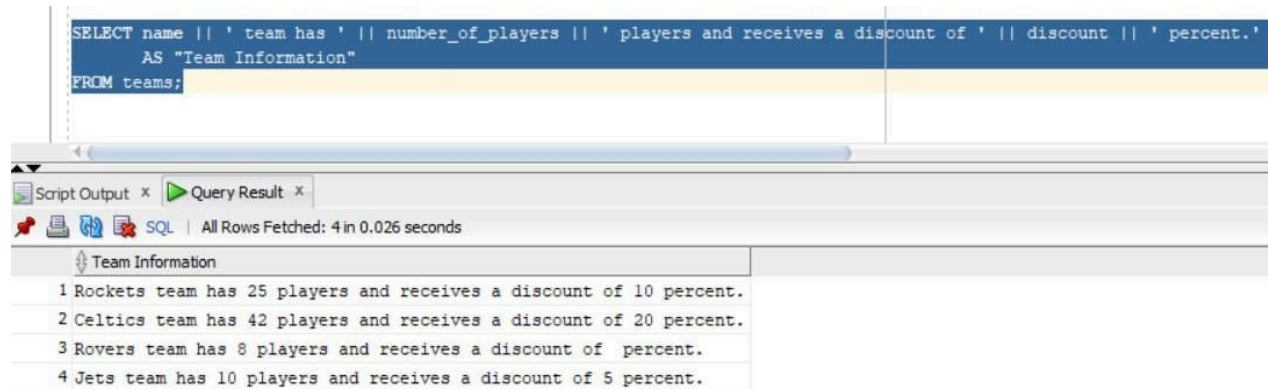
```
SELECT first_name AS "First Name", last_name AS "Last Name",  
current_balance AS "Balance", current_balance/12 AS "Monthly  
Repayments" FROM customers;
```

[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.

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



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

| Team Information                                                     |
|----------------------------------------------------------------------|
| 1 Rockets team has 25 players and receives a discount of 10 percent. |
| 2 Celtics team has 42 players and receives a discount of 20 percent. |
| 3 Rovers team has 8 players and receives a discount of percent.      |
| 4 Jets team has 10 players and receives a discount of 5 percent.     |

2. Why does the last team not show a discount

The discount for Team Rovers is not displayed because their team has a NULL value in the discount column.