FACULTY OF COMPUTING
UTM Johor Bahru

SECD 2523
SECTION 10

LECTURER: ROZILAWATI BINTI DOLLAH @ MD ZAIN

PROJECT TITLE: SQL LAB3 (DML2) PART2

NAME: WINKI WONG JIA XUAN
MATRIC NUMBER: A22EC0116

Part 1: Using Arithmetic Operators

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.
   SELECT first_name,last_name,current_balance,current_balance/12 AS monthly_payment FROM customers;

FIRST_NAME	LAST_NAME	CURRENT_BALANCE	MONTHLY_PAYMENT
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
John	Doe	987.5	82.2916666666666666666666666666666666667
Andrew	Murcia	85	7.0833333333333333333333333333333333333
Maria	Galant	125.65	10.4708333333333333333333333333333333333

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

FIRST_NAME	LAST_NAME	CURRENT_BALANCE	ADJUSTED_BALANCE
Robert	Thornberry	150	145
Jennifer	Jones	0	-5
John	Doe	987.5	982.5
Andrew	Murcia	85	80
Maria	Galant	125.65	120.65

3. What would be the problem with implementing this scheme?
   If the current value before deduction is less than RM5, then gift card will be a negative value.

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).S
SELECT first _name AS "First Name", last_name AS AS "Last Name", current balance AS "Balance", current balance/12 AS "Monthly Repayments" FROM customers;

First Name	Last Name	Balance	Monthly Repayments
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
John	Doe	987.5	82.2916666666666666666666666666666666667
Andrew	Murcia	85	7.0833333333333333333333333333333333333
Maria	Galant	125.65	10.4708333333333333333333333333333333333

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;

Team Information
Rocketsteam has25players and receives a discount of10percent.
Celticsteam has42players and receives a discount of20percent.
Roversteam has8players and receives a discount ofpercent.
Jetsteam has10players and receives a discount of5percent.

2. Why does the last team not show a discount
Team has a null value in the discount column.