

SECD 2523 - 10 (DATABASE)

LAB 3: SQL 3 DML 2

PART 2

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SEMESTER 20232024 – 1 SECTION 10

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Section 6 Lesson 6 Exercise 2: Retrieving Data Using SELECT

Write and Execute SELECT statements (S6L6 Objective 2)

In this exercise you will retrieve data that is stored in the database system by using a SELECT statement.

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 FROM customers;

FIRST_NAME	LAST_NAME	CURRENT_BALANCE	CURRENT_BALANCE/12
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
John	Doe	987.5	82.29166666666666666666666666666666666
Andrew	Murcia	85	7.0833333333333333333333333333333333333
Maria	Galant	125.65	10.470833333333333333333333333333333333
Brian	Rogers	50	4.1666666666666666666666666666666666666
6 rows returned in (0.02 seconds Do	ownload	

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 FROM customers;

FIRST_NAME	LAST_NAME	CURRENT_BALANCE	CURRENT_BALANCE-5
Robert	Thornberry	150	145
Jennifer	Jones	0	
John	Doe	987.5	982.5
Andrew	Murcia	85	80
Maria	Galant	125.65	120.65
Brian	Rogers	50	45
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3. What would be the problem with implementing this scheme? The current balance can be a negative value for any customer's current balance that is less than 5 after using 5\$ gift card to reduce 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).

SELECT first_name AS "First Name", last_name 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	82.291666666666666666666666666666666		
Andrew	Murcia	85	7.083333333333333333333333333333333333		
Maria	Galant	125.65	10.4708333333333333333333333333333333333		
Brian	Rogers	50	4.1666666666666666666666666666666666666		
6 rows returned in 0.01 seconds Download					

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.

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

AS "Team Information"

FROM teams;

Team Information
The Rocketsteam has 25 players and receives a discount of 10 percent.
The Celticsteam has 42 players and receives a discount of 20percent.
The Roversteam has 8 players and receives a discount of percent.
The Jetsteam has 10 players and receives a discount of 5percent.
4 rows returned in 0.01 seconds Download

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

The last teamm does not show any discount is because "Team Rovers" has a NULL value for discount column