Database Design Project

Oracle Baseball League Store Database

Project Scenario:

You are a small consulting company specializing in database development. You have just been awarded the contract to develop a data model for a database application system for a small retail store called Oracle Baseball League (OBL).

The Oracle Baseball League store serves the entire surrounding community selling baseball kit. The OBL has two types of customer, there are individuals who purchase items like balls, cleats, gloves, shirts, screen printed t-shirts, and shorts. Additionally customers can represent a team when they purchase uniforms and equipment on behalf of the team.

Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players. When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.

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 AS monthly_payment
    FROM customers;
    ```

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, customer_number, current_balance, current_balance - 5.00 AS
    new_balance
    FROM customers;
    ```

3. What would be the problem with implementing this scheme?
    We need a condition to ensure that the gift card will detect from the balance is greater than 5,so balance wont be on 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;
    ```

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

2. Why does the last team not show a discount?
    Because the value is null.