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.

```
1  SELECT first_name,last_name,current_balance/12 AS month_payment
2  FROM customers;
3
```

FIRST_NAME	LAST_NAME	MONTH_PAYMENT
Robert	Thornberry	12.5
Jennifer	Jones	0
John	Doe	82.2916666666666666666666666666666666666667
Andrew	Murcia	7.0833333333333333333333333333333333333333
Maria	Galant	10.4708333333333333333333333333333333333333
Brian	Rogers	4.1666666666666666666666666666666666666667

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.

```
1 v  SELECT first_name,last_name,current_balance,current_balance,-5.00 AS adjusted_balance
2    FROM customers;
3
```

FIRST_NAME	LAST_NAME	CURRENT_BALANCE	CURRENT_BALANCE	ADJUSTED_BALANCE
Robert	Thornberry	150	150	-5
Jennifer	Jones	0	0	-5
John	Doe	987.5	987.5	-5
Andrew	Murcia	85	85	-5
Maria	Galant	125.65	125.65	-5
Brian	Rogers	50	50	-5

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6 rows selected.

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

The new current balance after deduction RM5.00 will less than Rm0.00 if current balance less than RM5.00

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

```
1
2  SELECT first_name AS "FirstName",
3          last_name AS "Last Name",
4      current_balance AS "Balance",
5      current_balance/12 AS "Monthly Repayments"
6  FROM customers;
7
```

FirstName	Last Name	Balance	Monthly Repayments
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
John	Doe	987.5	82.2916666666666666666666666666666666667
Andrew	Murcia	85	7.08333333333333333333333333333333333333
Maria	Galant	125.65	10.4708333333333333333333333333333333333
Brian	Rogers	50	4.16666666666666666666666666666666666667

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6 rows selected.

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.

```
1
2  SELECT name||' team has '||number_of_players||' players and receives a discount of '||discount||' percent.'AS "Team Information"
3  FROM teams;
4  |
```

Team Information
Rockets team has 25 players and receives a discount of 10 percent.
Celtics team has 42 players and receives a discount of 20 percent.
Rovers team has 8 players and receives a discount of percent.
Jets team has 10 players and receives a discount of 5 percent.

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4 rows selected.

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

Because team Rovers has NULL value in the discount column