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18. Problem Statement 18 (Procedures / Functions)
Consider following schema for Bank database.
Account(Account_No, Cust_Name, Balance, NoOfYears)
Earned_Interest(Account_No, Interest_Amt)
1. Write a PL/SQL procedure for following requirement. Take as input Account_No and
Interest Rate from User.
Calculate the Interest_Amt as simple interest for the given Account_No and store it
in Earned_Interest table.
Display all the details of Earned_Interest Table.
2. Write a PLSQL function to display all records from Account table having Balance
greater than 50,000.
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Create database Bank;
-- Create Table: Account
CREATE TABLE Account (
    Account No INT PRIMARY KEY,
    Cust_Name VARCHAR(50),
    Balance DECIMAL(10, 2),
    NoOfYears INT
);
-- Sample Data: Account
INSERT INTO Account (Account_No, Cust_Name, Balance, NoOfYears) VALUES
(101, 'Rohit Sharma', 60000, 3),
(102, 'Sonal Mehta', 45000, 2),
(103, 'Amit Singh', 80000, 5),
(104, 'Rekha Gupta', 30000, 1);
-- Create Table: Earned_Interest
CREATE TABLE Earned_Interest (
    Account_No INT,
    Interest_Amt DECIMAL(10, 2),
    FOREIGN KEY (Account_No) REFERENCES Account(Account_No)
);
-- Sample Data: Earned_Interest (initially empty)
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--PL/SOL Procedure for 1
DELIMITER //
CREATE PROCEDURE Calculate_Interest (
    IN p_Account_No INT,
    IN p_Interest_Rate DECIMAL(5, 2)
BEGIN
    DECLARE v_Balance DECIMAL(10, 2);
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DECLARE v_NoOfYears INT;
   DECLARE v_Interest_Amt DECIMAL(10, 2);
   SELECT Balance, NoOfYears
   INTO v_Balance, v_NoOfYears
   FROM Account
   WHERE Account_No = p_Account_No;
   SET v_Interest_Amt = (v_Balance * p_Interest_Rate * v_NoOfYears) / 100;
   IF EXISTS (SELECT 1 FROM Earned_Interest WHERE Account_No = p_Account_No) THEN
       UPDATE Earned_Interest
       SET Interest_Amt = v_Interest_Amt
      WHERE Account_No = p_Account_No;
   ELSE
       INSERT INTO Earned_Interest (Account_No, Interest_Amt)
      VALUES (p_Account_No, v_Interest_Amt);
   END IF;
   SELECT * FROM Earned_Interest;
END //
DELIMITER;
______
--PL/SQL Procedure for 2
DELIMITER //
CREATE PROCEDURE Show_High_Balance_Accounts()
BEGIN
   SELECT Account_No, Cust_Name, Balance, NoOfYears
   FROM Account
   WHERE Balance > 50000;
END //
DELIMITER;
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    CALL Calculate_Interest(102, 6.0);

CALL Show_High_Balance_Accounts();
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