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Subqueries separated by " ***** "
Questions separated by " ====== "
17. Cursor (Any Two)
a) The bank manager has decided to activate all those accounts which were
previously marked as
inactive for performing no transaction in last 365 days. Write a PL/SQ block (using
implicit
cursor) to update the status of account, display an approximate message based on
the no. of rows
affected by the update. (Use of %FOUND, %NOTFOUND, %ROWCOUNT)
ANSWER: -
CREATE DATABASE practest;
Use practest;
             **********************
*****
CREATE TABLE accounts (
    account_id INT AUTO_INCREMENT PRIMARY KEY,
    account_name VARCHAR(100) NOT NULL,
    status ENUM('Active', 'Inactive') DEFAULT 'Inactive',
    last_transaction_date DATE
           ********************
INSERT INTO accounts (account_name, status, last_transaction_date)
VALUES
    ('Amit Kumar', 'Inactive', '2022-10-20'), ('Priya Sharma', 'Inactive', '2023-01-15'),
    ('Ravi Verma', 'Active', '2024-05-10'),
('Neha Patel', 'Inactive', '2022-09-30'),
('Kiran Desai', 'Inactive', '2024-06-01'),
    ('Vijay Rao', 'Inactive', '2023-11-05');
*****
DELIMITER //
CREATE PROCEDURE ActivateInactiveAccounts()
BEGIN
    DECLARE v_rows_updated INT DEFAULT 0;
    UPDATE accounts
    SET status = 'Active'
    WHERE status = 'Inactive'
      AND last_transaction_date <= DATE_SUB(CURDATE(), INTERVAL 365 DAY);
      SET v_rows_updated = ROW_COUNT();
    IF v_rows_updated > 0 THEN
        SELECT CONCAT(v_rows_updated, ' accounts were activated.') AS message;
    ELSE
        SELECT 'No accounts were found to activate.' AS message;
    END IF;
END //
DELIMITER;
CALL ActivateInactiveAccounts();
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******
select * from accounts;
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=========
17. Cursor (Any Two)
c)Write the PL/SQL block for following requirements using parameterized Cursor:
Consider
table EMP(e_no, d_no, Salary), department wise average salary should be inserted
into new
table dept_salary(d_no, Avg_salary)
ANSWER: -
CREATE TABLE EMP (
   e_no INT PRIMARY KEY,
   d_no INT,
   salary DECIMAL(10, 2)
);
CREATE TABLE dept_salary (
   d_no INT PRIMARY KEY,
   avg_salary DECIMAL(10, 2)
INSERT INTO EMP (e_no, d_no, salary) VALUES
   (1, 101, 5000),
   (2, 101, 6000),
   (3, 102, 7000),
   (4, 102, 8000),
   (5, 103, 7500);
DELIMITER $$
CREATE PROCEDURE CalculateDeptAvgSalary()
BEGIN
   DECLARE done INT DEFAULT 0;
   DECLARE v_dno INT;
   DECLARE v_avg_salary DECIMAL(10, 2);
   DECLARE dept_cursor CURSOR FOR
      SELECT DISTINCT d_no FROM EMP;
   DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
   OPEN dept_cursor;
   read_loop: LOOP
      FETCH dept_cursor INTO v_dno;
      IF done THEN
         LEAVE read_loop;
      END IF;
      SELECT AVG(salary) INTO v_avg_salary
```