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Subqueries separated by " ***** "
Questions separated by " ====== "
16. 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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16. Cursor (Any Two)
c) Write PL/SQL block using explicit cursor for following requirements: College has
decided to
mark all those students detained (D) who are having attendance less than 75%.
Whenever such
update takes place, a record for the same is maintained in the D_Stud table. create
table
stud21(roll number(4), att number(4), status varchar(1));
ANSWER: -
CREATE TABLE stud21 (
   roll INT(4) PRIMARY KEY,
   att INT(4),
   status VARCHAR(1) DEFAULT 'N'
CREATE TABLE D_Stud (
   roll INT(4),
   detention_date DATE
INSERT INTO stud21 (roll, att, status) VALUES
   (1001, 80, 'N'),
   (1002, 70, 'N'),
(1003, 60, 'N'),
   (1004, 85, 'N'),
   (1005, 72, 'N');
        DELIMITER //
CREATE PROCEDURE MarkDetainedStudents()
BEGIN
   DECLARE done INT DEFAULT FALSE;
   DECLARE v_roll INT;
   DECLARE v_att INT;
   DECLARE cur_detained_students CURSOR FOR
      SELECT roll, att
      FROM stud21
      WHERE att < 75;
   DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
   OPEN cur_detained_students;
   read loop: LOOP
      FETCH cur_detained_students INTO v_roll, v_att;
      IF done THEN
         LEAVE read_loop;
      END IF;
      UPDATE stud21
      SET status = 'D'
      WHERE roll = v_roll;
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INSE	RT INTO D_Stud (roll, detention_date)
VALU	ES (v_roll, CURDATE());
END LOOP	!
CLOSE cu	r_detained_students;
COMMIT;	
SELECT '	All students with attendance below 75% have been marked as detained.'
AS Message;	
END //	
DELIMITER ;	

	ainedStudents(); ************************************

select * fro	m stud21;
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