/*Practical No : 04 Name: Dhiraj Vijay Barwal, Class: TECSD Batch: T1*/

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/*WRITE A PL/SQL BLOCK TO CREATE CURSOR TO COPY CONTENTS OF
ONE TABLE INTO ANOTHER. AVOID REDUNDANCY. */
-- Step 1: Create Database and Use it
CREATE DATABASE library;
USE library:
-- Step 2: Create Borrower and Fine Tables
CREATE TABLE borrower (
  rollno INT PRIMARY KEY,
  name VARCHAR(20),
  dateofissue DATE,
  nameofbook VARCHAR(20),
  status VARCHAR(1)
);
CREATE TABLE fine (
  rollno INT,
  returndate DATE,
  amount INT,
  FOREIGN KEY (rollno) REFERENCES borrower(rollno)
);
-- Step 3: Insert Sample Data into Borrower Table
INSERT INTO borrower VALUES (1, 'dhiraj', '2021-06-01', 'SEPM', 'I');
INSERT INTO borrower VALUES (2, 'suyog', '2021-05-01', 'OOP', 'I');
INSERT INTO borrower VALUES (3, 'pramod', '2021-06-15', 'DBMS', 'I');
INSERT INTO borrower VALUES (4, 'farhan', '2021-06-30', 'DSA', 'I');
INSERT INTO borrower VALUES (5, 'pramod', '2021-07-05', 'ADS', 'I');
-- Step 4: Display Borrower Table to Verify Insertion
SELECT * FROM borrower;
-- Step 5: Create Stored Procedure to Calculate Fine
DELIMITER $$
CREATE PROCEDURE calc_fine_lib(IN roll INT)
BEGIN
  DECLARE fine1 INT DEFAULT 0;
  DECLARE noofdays INT;
  DECLARE issuedate DATE;
  SELECT dateofissue INTO issuedate FROM borrower WHERE rollno = roll;
```

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IF noofdays > 15 AND noofdays <= 30 THEN
     SET fine1 = noofdays * 5;
     INSERT INTO fine VALUES (roll, CURDATE(), fine1);
  ELSEIF noofdays > 30 THEN
     SET fine1 = ((noofdays - 30) * 50) + (30 * 5);
     INSERT INTO fine VALUES (roll, CURDATE(), fine1);
     INSERT INTO fine VALUES (roll, CURDATE(), 0);
  END IF;
  UPDATE borrower SET status = 'R' WHERE rollno = roll;
END $$
DELIMITER;
-- Step 6: Call the Procedure for Each Borrower
CALL calc_fine_lib(1);
CALL calc_fine_lib(2);
CALL calc fine lib(3);
CALL calc_fine_lib(4);
CALL calc_fine_lib(5);
-- Step 7: Display Fine Table to Verify Results
SELECT * FROM fine;
-- Optional: Drop the database (uncomment if needed) -- DROP DATABASE library;
CALL p3(3);
SELECT * FROM n rollcall;
-- OUTPUT:
-- | roll_no | name | address |
         | Kalpesh | Dhule
| Abhi | Satara |
__ ********************
INSERT INTO o_rollcall VALUES (6, 'Patil', 'Kolhapur');
CALL p3(4);
SELECT * FROM n rollcall;
-- OUTPUT:
  |roll_no|name |address|
         | Kalpesh | Dhule
| Abhi | Satara |
| Patil | Kolhapur |
-- | 4
-- | 5
-- | 6
```

SELECT DATEDIFF(CURDATE(), issuedate) INTO noofdays;