

P7

Problem Statement:

Stored function Age_calc: accept DOB parameter, calculate age in years, months, days.

Return years; months and days as OUT parameters.

Code:

```
-- P7: MySQL stored function and procedure to return age parts
-- MySQL does not support OUT parameters in functions; use a procedure.
DELIMITER $$
CREATE PROCEDURE Age_calc(IN in_dob DATE, OUT out_years INT, OUT out_months INT, OUT out_days INT)
BEGIN
    DECLARE years INT;
    DECLARE months INT;
    DECLARE days INT;
    SET years = TIMESTAMPDIFF(YEAR, in_dob, CURDATE());
    SET months = TIMESTAMPDIFF(MONTH, DATE_ADD(in_dob, INTERVAL years YEAR), CURDATE());
    SET days = DATEDIFF(CURDATE(), DATE_ADD(DATE_ADD(in_dob, INTERVAL years YEAR), INTERVAL months
MONTH));
    SET out_years = years;
    SET out_months = months;
    SET out_days = days;
END$$
DELIMITER ;
```