

Assignment No. 9

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delimiter //  
  
CREATE PROCEDURE city_count(IN cityname varchar(20), OUT  
total INT)  
BEGIN  
  
    SELECT COUNT(city) INTO total  
    FROM customer  
    where customer.city=cityname;  
  
END //  
  
delimiter ;  
  
delimiter //  
  
CREATE PROCEDURE even_odd_count(num INT)  
BEGIN  
  
    DECLARE inc INT;  
    DECLARE countEven INT;  
    DECLARE countOdd INT;  
  
    SET inc=1;  
    SET countEven=0;  
    SET countOdd=0;  
  
    WHILE inc<=num DO  
        IF(inc MOD 2) THEN  
            SET countOdd=countOdd+1;  
        ELSE  
            SET countEven=countEven+1;  
        END IF;  
        SET inc=inc+1;  
    END WHILE;  
    SELECT countEven,countOdd;  
  
END //  
  
delimiter ;  
  
delimiter //  
  
CREATE PROCEDURE reverse_num(num INT)
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BEGIN

    DECLARE rev INT;
    DECLARE rem INT;
    DECLARE temp INT;

    SET rev=0;
    SET rem=0;
    SET temp=num;

    WHILE temp>0 DO

        SET rem=temp%10;
        SET rev=(rev*10)+rem;
        SET temp=floor(temp/10);

    END WHILE;

    SELECT num,rev;

END //

delimiter ;

delimiter //

CREATE PROCEDURE tax_calculation(IN sal FLOAT)
BEGIN

    DECLARE hra FLOAT;
    DECLARE medAll FLOAT;
    DECLARE it FLOAT;
    DECLARE net FLOAT;

    SET hra=sal*0.1;
    SET medAll=sal*0.05;
    SET it=sal*0.2;
    SET net=sal-hra-medAll-it;

    SELECT sal,hra,medAll,it,net;

END //

delimiter ;

delimiter //

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CREATE PROCEDURE total_spent(IN customerid INT, OUT total
FLOAT)
BEGIN

    SELECT SUM(total_price) INTO total
    FROM orders
    where orders.cust_id=customerid;

END //

delimiter ;

delimiter //

create procedure prime(num int)
begin

    declare i int;
    declare f int;
    declare msg varchar(100);

    set f = 0;
    set i = 2;
    set msg = '';

    label1: while i <= num/2 do
        if (num mod i) then
            set f = 1;
            LEAVE label1;
        end if;
        set i = i + 1;
    end while;

    if (num = 1) then
        set msg = '1 is neither prime nor composite!';
    elseif (f = 0) then
        set msg = 'Prime number!';
    else
        set msg = 'Composite number!';
    end if;

    select msg;

end //

delimiter ;
```