

پاییز ۱۳۹۴

تمرین سری دوم
تدریسیاری پایگاه‌های داده

پرهام الوانی

۹۲۳۱۰۵۸

سوال ۱

(۱) رویه زیر تعداد اعداد زوج بازه داده شده را در متغیر count به صورت call by reference باز می‌گرداند.

```
DELIMITER $$

create procedure evens (in n1 int, in n2 int, out count int)
begin
    declare i int;
    set i = n1;
    set count = 0;

    while i <= n2 do
        if i % 2 = 0 then
            set count = count + 1;
        end if;
        set i = i + 1;
    end while;
end $$
```

(۲)

```
DELIMITER $$

create procedure employee_insert (in id int, in name varchar(255), in family
varchar(255), in salary int)
begin
    insert into employees values (id, name, family, salary);
end $$
```

(۳)

```
DELIMITER $$

create procedure employee_delete (in id int)
begin
    delete from employees where employees.id = id;
end $$
```

(۴)

```
DELIMITER $$

begin
    update employees set employees.name = name, employees.family = family,
employees.salary = salary where employees.id = id;
```

```
end$$
```

(۵)

```
DELIMITER $$
```

```
create procedure employee_select (in c char(1))
begin
    select * from employes where employes.name like concat(c, '%', '');
end$$
```

سوال ۲

(۱)

```
DELIMITER $$
```

```
create function outputGenerator(number int) returns varchar(255)
deterministic
begin
    declare retval varchar(255);

    set retval = '';

    case
        when numebr = '۸۱۱' then set retval = '-فروردین ۱۳۸۸-';
        when number = '۸۴۱' then set retval = '-تیر ۱۳۸۸-';
        when number = '۸۶۱' then set retval = '-شهریور ۱۳۸۸-';
    end case;

    return (retval);
end $$
```

(۲)

```
DELIMITER $$
```

```
create function primeChecker(number int) returns bool
deterministic
begin
    declare i int;
    declare retval bool;

    set retval = true;
    set i = 2;

    while i < number do
```

```
        if number % i = 0 then
            set retval = false;
        end if;
        set i = i + 1;
    end while;
    return (retval);
end $$
```

سوال ۳

```
select * from students where primeChecker(students.ID) = true;
```