

Mysql Codes:

Stored Procedures:

Code 1:

```
use employees;

drop procedure if exists select_employees;

delimiter $$

create procedure select_employees()

begin

    select * from employees

    limit 1000;

end$$

delimiter ;
```

Code 2:

```
delimiter $$

create procedure avg_salary()

begin

    select avg(salary) from salaries;

end$$

delimiter ;

call avg_salary;

call avg_salary()
```

Code3:

```
use employees;

drop procedure if exists emp_salary;

delimiter $$

create procedure emp_salary(in p_emp_no integer)

begin

    select e.first_name,e.last_name,s.salary,s.from_date,s.to_date

    from
```

```
employees e
join
salaries s on e.emp_no = s.emp_no
where e.emp_no = p_emp_no;
end$$
delimiter ;
call emp_salary(11300)
```

code 4:

```
use employees;
drop procedure if exists emp_salary_avg;
delimiter $$
create procedure emp_salary_avg(in p_emp_no integer)
begin
    select e.first_name,e.last_name,avg(s.salary)
    from
    employees e
    join
    salaries s on e.emp_no = s.emp_no
    where e.emp_no = p_emp_no;
end$$
delimiter ;
call emp_salary_avg(11300)
```

Code5:

```
use employees;
drop procedure if exists emp_salary_avg_out;
delimiter $$
create procedure emp_salary_avg_out(in p_emp_no integer,out p_avg_salary decimal(10,2))
begin
    select avg(s.salary) into p_avg_salary
```

```

from employees e
join
salaries s on e.emp_no=s.emp_no
where
e.emp_no=p_emp_no;
end$$
delimiter ;
call emp_salary_avg_out(11300,@p_avg_salary);
select @p_avg_salary;

```

Note:

```

set @p_avg_salary=0;
CALL `employees`.`emp_salary_avg_out`(11300,@p_avg_salary);
select @p_avg_salary;

```

Code 6:

Usage of IN and OUT Parameters:

Create a procedure called 'emp_info' that uses as parameters the first and the last name of an individual, and returns their employee number.

Solution:

```

DELIMITER $$
CREATE PROCEDURE emp_info(in p_first_name varchar(255), in p_last_name varchar(255), out p_emp_no
integer)
BEGIN
    SELECT
        e.emp_no
    INTO p_emp_no FROM
        employees e
    WHERE
        e.first_name = p_first_name
        AND e.last_name = p_last_name;
END$$
DELIMITER ;

```

Usage of OUT parameter:

use employees;

drop procedure if exists emp_sal_avg_out;

delimiter \$\$

create procedure emp_sal_avg_out(OUT p_avg_sal decimal(10,2))

begin

 select avg(s.salary) INTO p_avg_sal

 from employees e

 join

 salaries s on e.emp_no = s.emp_no

 where e.emp_no=11300;

end\$\$

delimiter ;

/*call emp_sal_avg_out(11300) */

/*call emp_sal_avg_out(11300,p_avg_sal)*/

call emp_sal_avg_out(@p_avg_sal);

select @p_avg_sal;