

Handy website: <https://www.mysqltutorial.org/mysql-stored-procedure-tutorial.aspx>

OUT parameter:

- it helps us to get the data from the procedure to the caller

PROGRAM 1 - print the employee name based on empno

1. We pass the empno to the procedure
2. Based on the empno, we get the ename and gets stored in "name" using SELECT INTO
3. This name gets returned back to the caller and gets stored in @name
4. Print @name

```
DELIMITER //
```

```
CREATE PROCEDURE getName(in eno int, out name varchar(20))
```

```
BEGIN
```

```
    SELECT ename INTO name FROM emp WHERE empno = eno;
```

```
END //
```

```
call getName(7934, @name) //
```

```
SELECT @name //
```

INOUT parameter:

- it is a combination of in and out parameter
- you can send the data from the caller
- with the same variable you can receive the data from the caller

PROGRAM 2 - print the salary of employee based on empno

1. First, set the value of @data variable to empno
2. This gets passed to the procedure, where we find the salary associated with this empno
3. This salary is stored in the local "data" variable using SELECT INTO
4. "data" gets returned back to the caller and gets stored in @data
5. Print @data

```
CREATE PROCEDURE getSal(inout data int)
BEGIN
    SELECT sal INTO data FROM emp WHERE empno = data;
END //

SET @data = 7934//

call getSal(@data)//

SELECT @data//
```

PROGRAM 3 –

Calculate the tax of an employee such that if the salary is greater than 2000, then the tax is 20% of the salary else it's 10% of the salary.

Syntax of IF-ELSE:

IF condition THEN

statements;

ELSE

else-statements;

END IF;

```
CREATE PROCEDURE findTax(in eno int)
BEGIN
    DECLARE p_tax int;
    DECLARE p_sal int;

    SELECT sal INTO p_sal FROM emp WHERE empno = eno;
    IF p_sal > 2000 THEN
        SET p_tax = p_sal * 0.2;
    ELSE
        SET p_tax = p_sal * 0.1;
    END IF;

    SELECT CONCAT("Tax = ", p_tax);
END //

call findTax(7844);
```

PROGRAM 4 –

Update the commission of an employee such that if the salary is greater than 2000, then the commission is 20% of the salary else it's 10% of the salary

```
CREATE PROCEDURE updateComm(in eno int)
BEGIN
    DECLARE p_sal int;

    SELECT sal INTO p_sal FROM emp WHERE empno = eno;
    IF p_sal > 2000 THEN
        UPDATE emp SET comm = p_sal * 0.2 WHERE empno = eno;
    ELSE
        UPDATE emp SET comm = p_sal * 0.1 WHERE empno = eno;
    END IF;
END //

call updateComm(7844);
```