

# Assignment 3 Trigger and Trigger Function

There is an example of triggers and trigger functions. And it checks if an employee's name is given, and the salary is a non-negative value. However, there are some errors inside, please ***\*FIND\**** them(10point for each) and ***\*CORRECT\**** them(10point for each).

```
1 CREATE OR REPLACE TABLE emp (
2     empname          text,
3     salary           integer,
4     last_date        timestamp,
5     last_user        text
6 );
7
8 CREATE OR REPLACE FUNCTION emp_stamp() RETURNS emp AS $emp_stamp$
9     BEGIN
10        -- Check that empname and salary are given
11        IF NEW.empname IS NULL THEN
12            RAISE EXCEPTION 'empname cannot be null';
13        END IF;
14        IF NEW.salary IS NULL THEN
15            RAISE EXCEPTION '% cannot have null salary', NEW.empname;
16        END IF;
17
18        -- Invalid salary value
19        IF NEW.salary < 0 THEN
20            RAISE EXCEPTION '% cannot have a negative salary', NEW.empname;
21        END IF;
22
23        -- Record who changed the payroll and when
24        NEW.last_date := current_timestamp;
25        NEW.last_user := current_user;
26        RETURN OLD;
27    END;
28 $emp_stamp$ LANGUAGE sql;
29
30 CREATE OR REPLACE TRIGGER emp_stamp AFTER INSERT OR UPDATE ON emp
31     FOR EACH ROW EXECUTE FUNCTION emp_stamp();
```