

# 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();
```