

# ASSIGNMENT

Submitted By,

Jisha Chacko

S2RMCA:A

Roll No:44

**1:** Create a Trigger for employee table it will update another table salary while updating values.

**Code:**

**sql>**

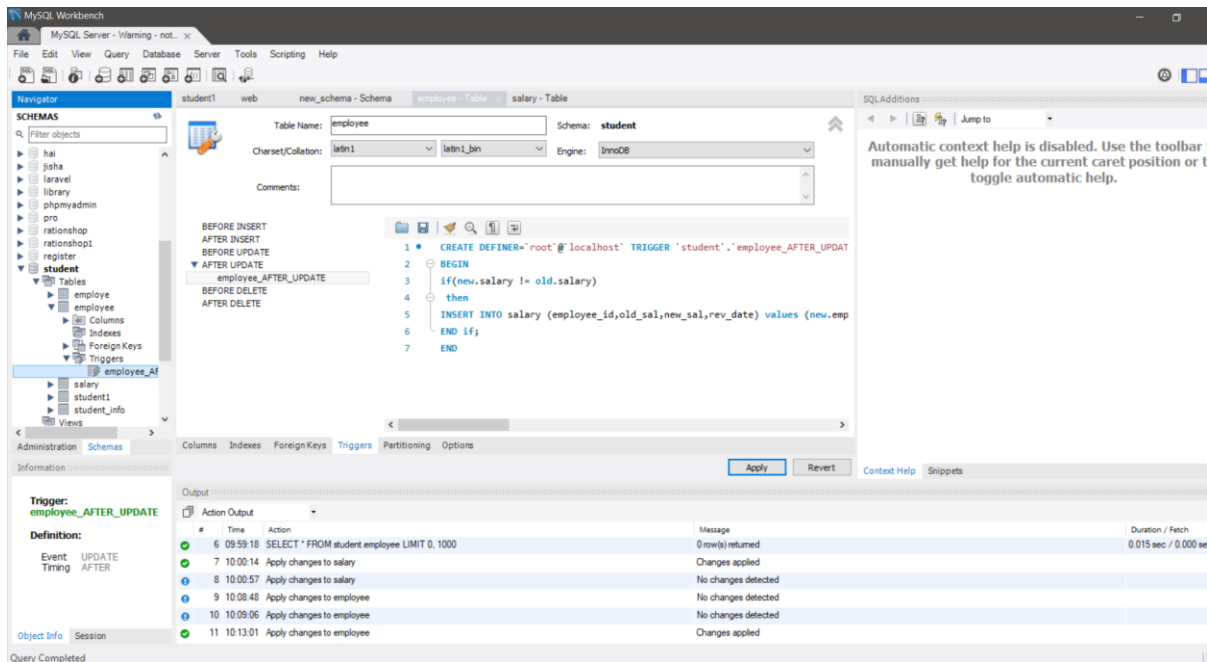
```
CREATE TABLE `employee` (  
  `emp_id` int(11) NOT NULL,  
  `emp_name` varchar(45) DEFAULT NULL,  
  `dob` date DEFAULT NULL,  
  `address` varchar(45) DEFAULT NULL,  
  `designation` varchar(45) DEFAULT NULL,  
  `mobile_no` int(11) DEFAULT NULL,  
  `dept_no` int(11) DEFAULT NULL,  
  `salary` int(11) DEFAULT NULL,  
  PRIMARY KEY (`emp_id`)  
);
```

**Sql>**

```
CREATE TABLE `salary` (  
  `employee_id` int(11) NOT NULL,  
  `old_sal` int(11) DEFAULT NULL,  
  `new_sal` int(11) DEFAULT NULL,  
  `rev_date` date DEFAULT NULL,  
  PRIMARY KEY (`employee_id`)  
);
```

**sql>**

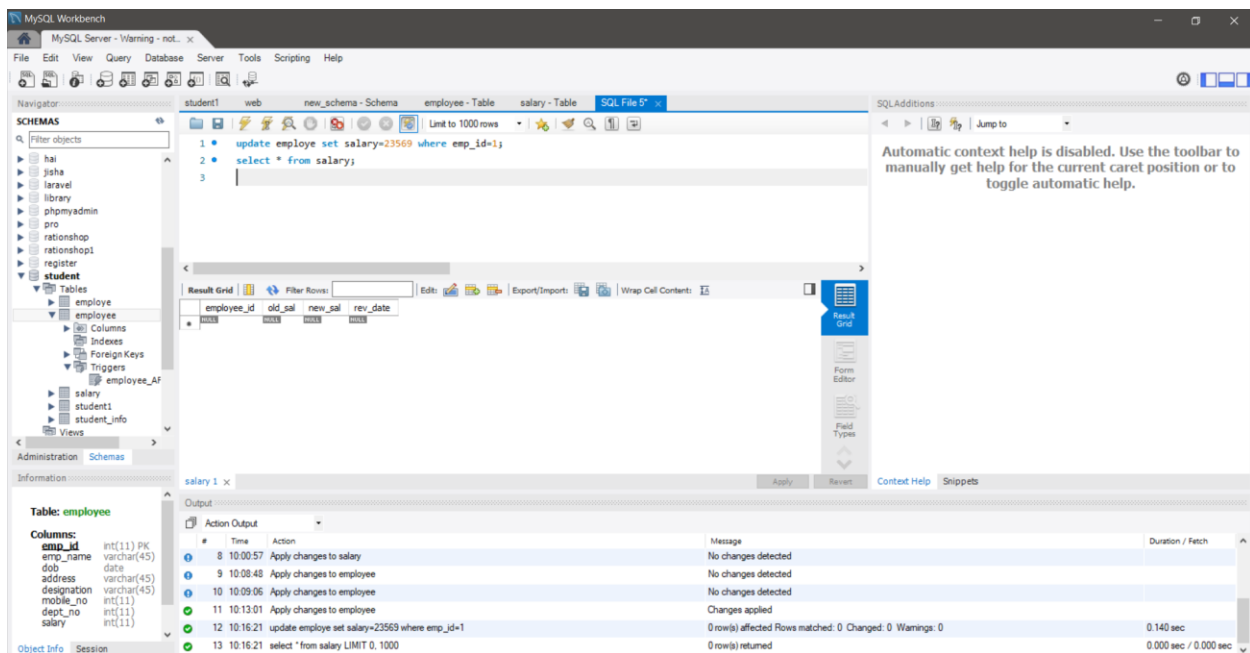
```
CREATE DEFINER=`root`@`localhost` TRIGGER  
`db1`.`personal_updates_AFTER_UPDATE_1`  
AFTER UPDATE ON `employee`  
FOR EACH ROW  
BEGIN  
  if(new.salary != old.salary)  
  then  
    INSERT INTO salary (employee_id,old_sal,new_sal,rev_date) values  
    (new.emp_id,old.salary,new.salary,sysdate());  
  END if;  
end;
```



sql>

update employee set salary=23569 where emp\_id=1;

select \* from salary;



2: Create a Trigger for employee table it will update another table personal\_updates while updating values.

**Code:****sql>**

```
CREATE TABLE `employee` (  
  `emp_id` int(11) NOT NULL,  
  `emp_name` varchar(45) DEFAULT NULL,  
  `dob` date DEFAULT NULL,  
  `address` varchar(45) DEFAULT NULL,  
  `designation` varchar(45) DEFAULT NULL,  
  `mobile_no` int(11) DEFAULT NULL,  
  `dept_no` int(11) DEFAULT NULL,  
  `salary` int(11) DEFAULT NULL,  
  PRIMARY KEY (`emp_id`)  
);
```

**Sql>**

```
CREATE TABLE `personal_updatations` (  
  `emp_id` int(11) NOT NULL,  
  `old_phoneno` int(11) DEFAULT NULL,  
  `new_phoneno` int(11) DEFAULT NULL,  
  `rev_date` date DEFAULT NULL,  
  PRIMARY KEY (`emp_id`)  
);
```

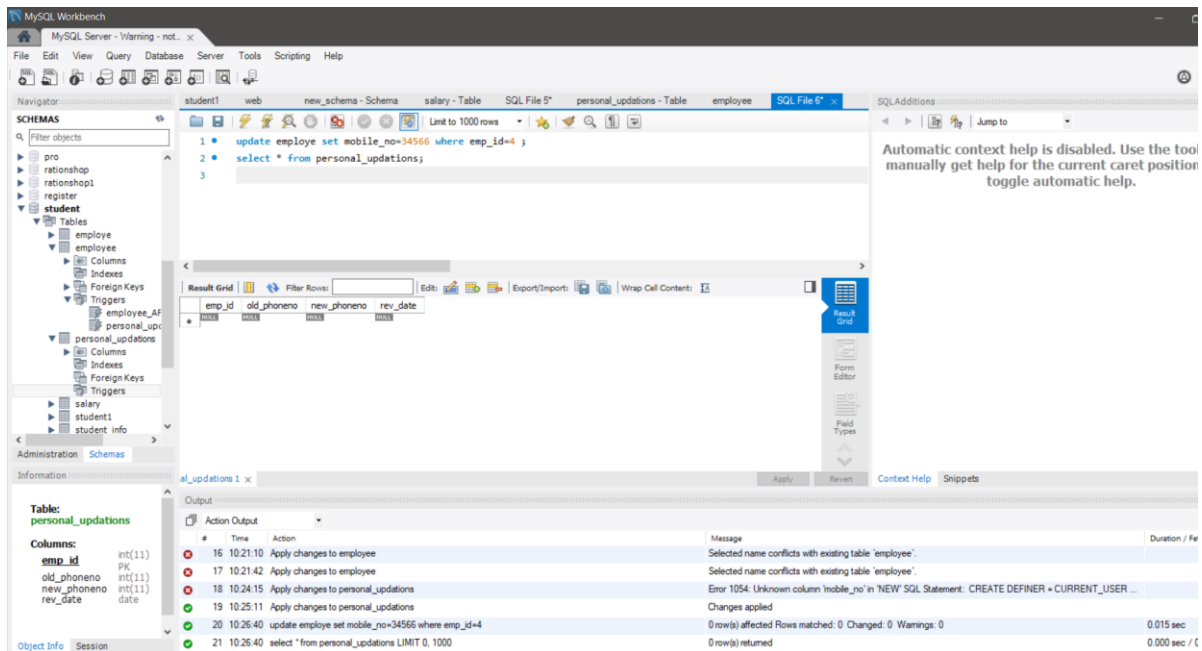
**sql>**

```
CREATE DEFINER=`root`@`localhost` TRIGGER  
`db1`.`personal_updatations_AFTER_UPDATE`  
AFTER UPDATE ON `employee`  
FOR EACH ROW  
BEGIN  
  if(new.mobile_no != old.mobile_no)  
  then  
    INSERT INTO personal_updatations (emp_id,old_phoneno,new_phoneno,rev_date) values  
    (new.emp_id,new.mobile_no,old.mobile_no,sysdate());  
  END if;  
end;
```

**sql>**

```
update employee set mobile_no=34566 where emp_id=4 ;
```

```
select * from personal_updatations;
```



**3:** Create a Trigger for employee table it will update another table promotions while updating values.

**Code:**

**sql>**

```
CREATE TABLE `employee` (
  `emp_id` int(11) NOT NULL,
  `emp_name` varchar(45) DEFAULT NULL,
  `dob` date DEFAULT NULL,
  `address` varchar(45) DEFAULT NULL,
  `designation` varchar(45) DEFAULT NULL,
  `mobile_no` int(11) DEFAULT NULL,
  `dept_no` int(11) DEFAULT NULL,
  `salary` int(11) DEFAULT NULL,
  PRIMARY KEY (`emp_id`)
);
```

**Sql>**

```
CREATE TABLE `personal_updates` (
  `emp_id` int(11) NOT NULL,
  `old_phoneno` int(11) DEFAULT NULL,
  `new_phoneno` int(11) DEFAULT NULL,
  `rev_date` date DEFAULT NULL,
  PRIMARY KEY (`emp_id`)
```

```
);
sql>
CREATE DEFINER=`root`@`localhost` TRIGGER `db1`.`employee_AFTER_UPDATE_1`
AFTER UPDATE ON `employee`
FOR EACH ROW
BEGIN
if(new.designation != old.designation)
then
INSERT INTO promotions (emp_id,old_designation,new_designation,rev_date) values
(new.emp_id,new.designation,old.designation,sysdate());
END if;
end;
```

```
sql>
update employee set designation='clk' where emp_id=4 ;

select * from promotions;
```

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with 'student' selected. The main editor shows the following SQL queries:

```
1. update employee set mobile_no=34566 where emp_id=4;
2. select * from personal_updates;
```

The 'Result Grid' is empty. The 'Output' window at the bottom shows the execution log for 'personal\_updates 13'.

#	Time	Action	Message	Duration / Fetch
40	10:32:43	update employee set mobile_no=34566 where emp_id=4	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec
41	10:32:43	select * from personal_updates LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
42	10:33:31	update employee set mobile_no=34566 where emp_id=2	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.015 sec
43	10:33:31	select * from personal_updates LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
44	10:33:33	update employee set mobile_no=34566 where emp_id=2	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec
45	10:33:33	select * from personal_updates LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec

Query Completed