Assignment

Subject : ADVANCED DBMS LAB

Topic : TRIGGER

Submitted by,

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ROLL NO 27

AIM

Create a Trigger for employe table it will update another table salary while updating values

OBJECTIVE

To develop and execute a Trigger for After update/Delete/Insert operations on a table

PROCEDURE

step 1: start

step 2: initialize the trigger.

step 3: On update the trigger has to be executed.

step 4: execute the trigger procedure after updation

step 5: carryout the operation on the table to check for trigger execution.

step 6: stop

PROGRAM

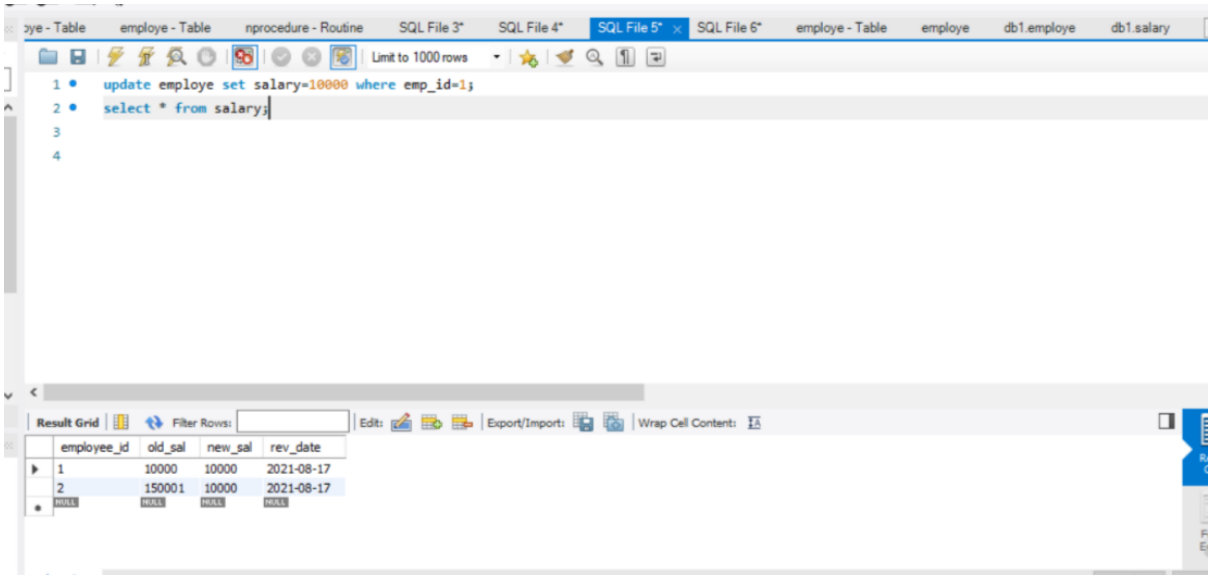
sql>

```
  CREATE TABLE `employe` (
 `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_updations_AFTER_UPDATE_1`
AFTER UPDATE ON `employe`
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 employe set salary=234569 where emp_id=1;
select * from salary;
```



AIM

Create a Trigger for employe table it will update another table personal_updations while updating values

OBJECTIVE

To develop and execute a Trigger for Before and After update/Delete/Insert operations on a table

PROCEDURE

step 1: start

step 2: initialize the trigger.

step 3: On update the trigger has to be executed.

step 4: execute the trigger procedure after updation

step 5: carryout the operation on the table to check for trigger execution.

step 6: stop

PROGRAM

sql>

```
CREATE TABLE `employe` (
```

```
  `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_updations` (
  `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_updations_AFTER_UPDATE`
AFTER UPDATE ON `employe`
FOR EACH ROW
BEGIN
if(new.mobile_no != old.mobile_no)
 then
 INSERT INTO personal_updations (emp_id,old_phoneno,new_phoneno,rev_date) values
(new.emp_id,new.mobile_no,old.mobile_no,sysdate());
```

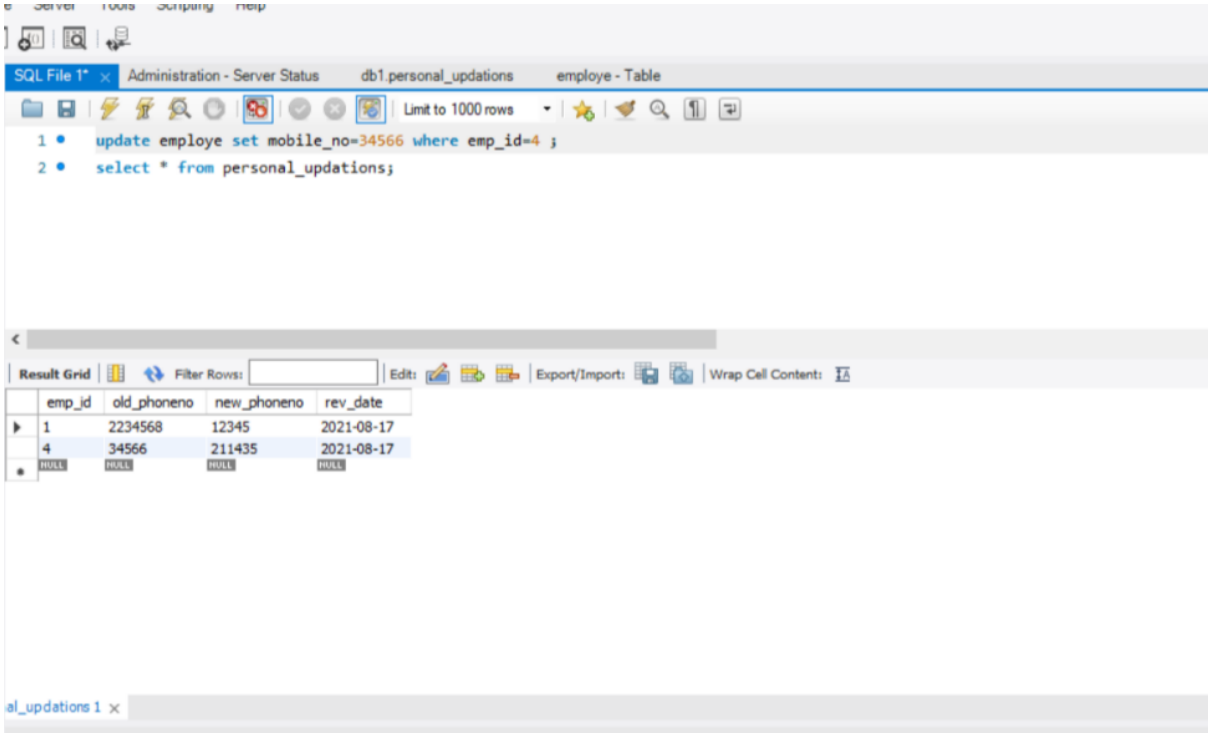
END if;

end;

sql>

update employe set mobile_no=34566 where emp_id=4 ;

select * from personal_updations;



AIM

Create a Trigger for employe table it will update another table promotions while updating values

OBJECTIVE

To develop and execute a Trigger for Before and After update/Delete/Insert operations on a table

PROCEDURE

step 1: start

step 2: initialize the trigger.

step 3: On update the trigger has to be executed.

step 4: execute the trigger procedure after updation

step 5: carryout the operation on the table to check for trigger execution.

step 6: stop

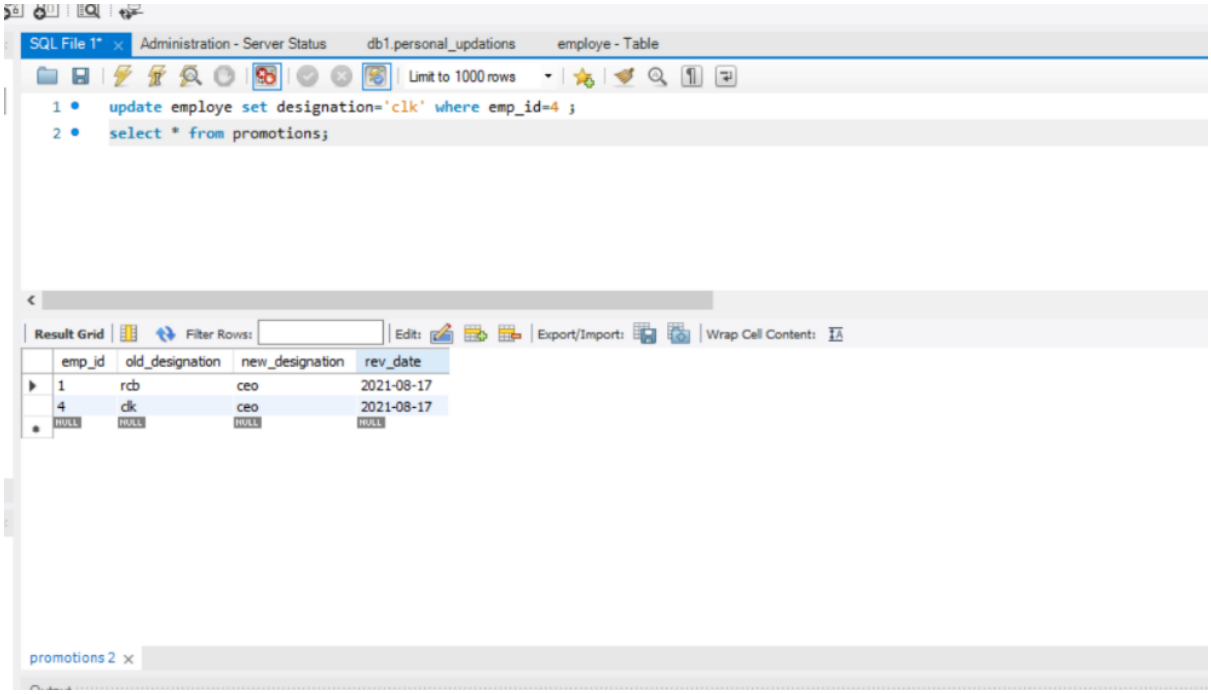
PROGRAM

```
sql>
  CREATE TABLE `employe` (
 `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_updations` (
 `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`.`employe_AFTER_UPDATE_1`
AFTER UPDATE ON `employe`
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 employe set designation='clk' where emp_id=4 ;
select * from promotions;
```


SQL File 1*
Administration - Server Status
db1.personal_updations
employe - Table
Limit to 1000 rows
1 update employe set designation='clk' where emp_id=4 ;
2 select * from promotions;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
emp_id old_designation new_designation rev_date
1 rcb ceo 2021-08-17
4 clk ceo 2021-08-17
NULL NULL NULL NULL
promotions 2