ADVANCED ADBMS LAB

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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

```
CREATE TABLE `db`.`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`) );


CREATE TABLE `db`.`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`));
```

CREATE DEFINER=`root`@`localhost` TRIGGER `db`.`employee_AFTER_UPDATE` 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

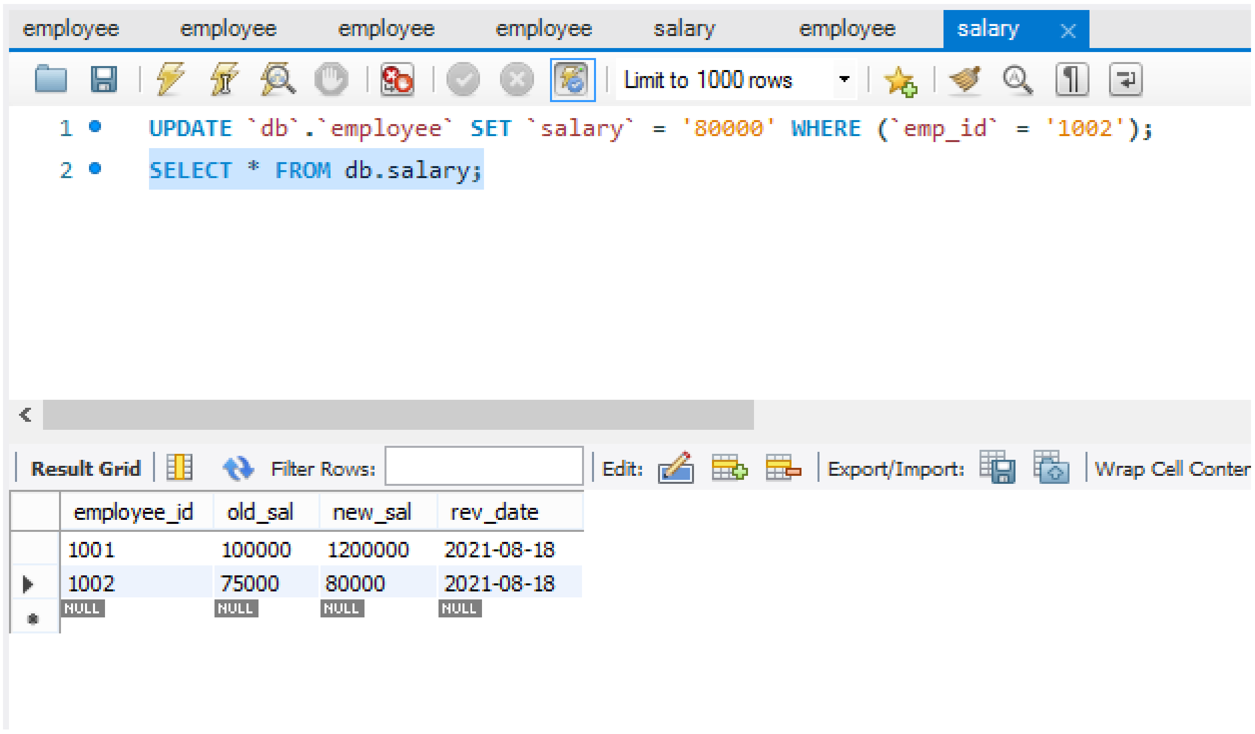
(new.emp_id,old.salary,new.salary,sysdate());

END IF;

END

UPDATE `db`.`employee` SET `salary` = '80000' WHERE (`emp_id` = '1002');

Select * from db.salary



```
UPDATE `db`.`employee` SET `salary` = '80000' WHERE (`emp_id` = '1002');
SELECT * FROM db.salary;
```

employee_id	old_sal	new_sal	rev_date
1001	100000	1200000	2021-08-18
1002	75000	80000	2021-08-18
NULL	NULL	NULL	NULL

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

TABLE

```
CREATE TABLE `db`.`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`));

CREATE TABLE `db`.`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`));

TRIGGER

CREATE DEFINER=`root`@`localhost` TRIGGER `db`.`employee_AFTER_UPDATE` AFTER UPDATE ON `employee` FOR EACH ROW

BEGIN

if(new.mobile_no != old.mobile_no)

then

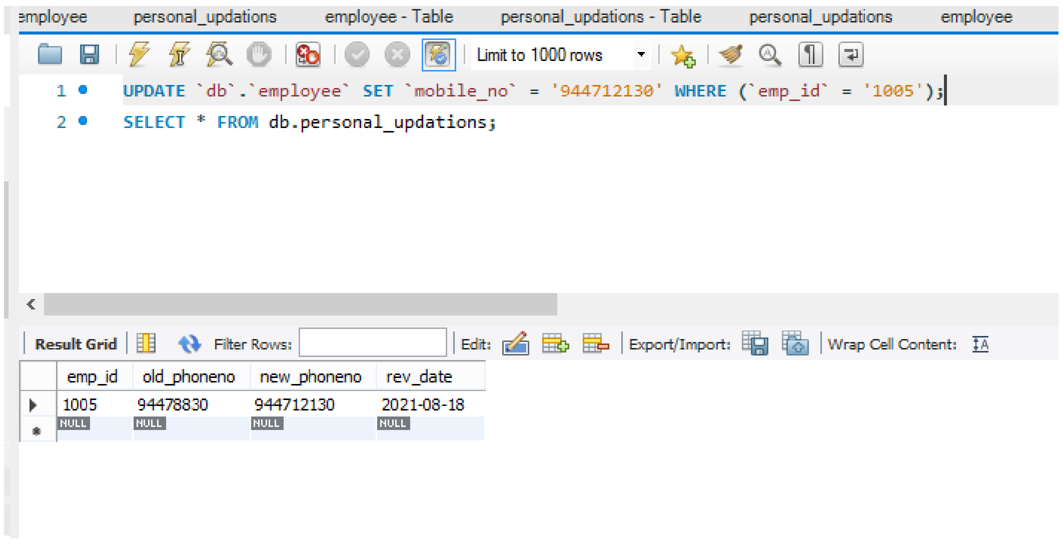
INSERT INTO personal_updations (emp_id,old_phoneno,new_phoneno,rev_date) values (new.emp_id,new.mobile_no,old.mobile_no,sysdate());

END if;

END

‘UPDATE `db`.`employee` SET `mobile_no` = '944712130' WHERE (`emp_id` = '1005');

SELECT * FROM db.personal_updations;



```
UPDATE `db`.`employee` SET `mobile_no` = '944712130' WHERE (`emp_id` = '1005');
SELECT * FROM db.personal_updations;
```

emp_id	old_phoneno	new_phoneno	rev_date
1005	94478830	944712130	2021-08-18
NULL	NULL	NULL	NULL

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

TABLE

```
CREATE TABLE `db`.`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`) );
```

```
CREATE TABLE `db`.`promotions` ( `emp_id` int(11) NOT NULL,
`old_designation` varchar(11) DEFAULT NULL, `new_designation` varchar(11)
DEFAULT NULL, `rev_date` date DEFAULT NULL, PRIMARY KEY
(`emp_id`));
```

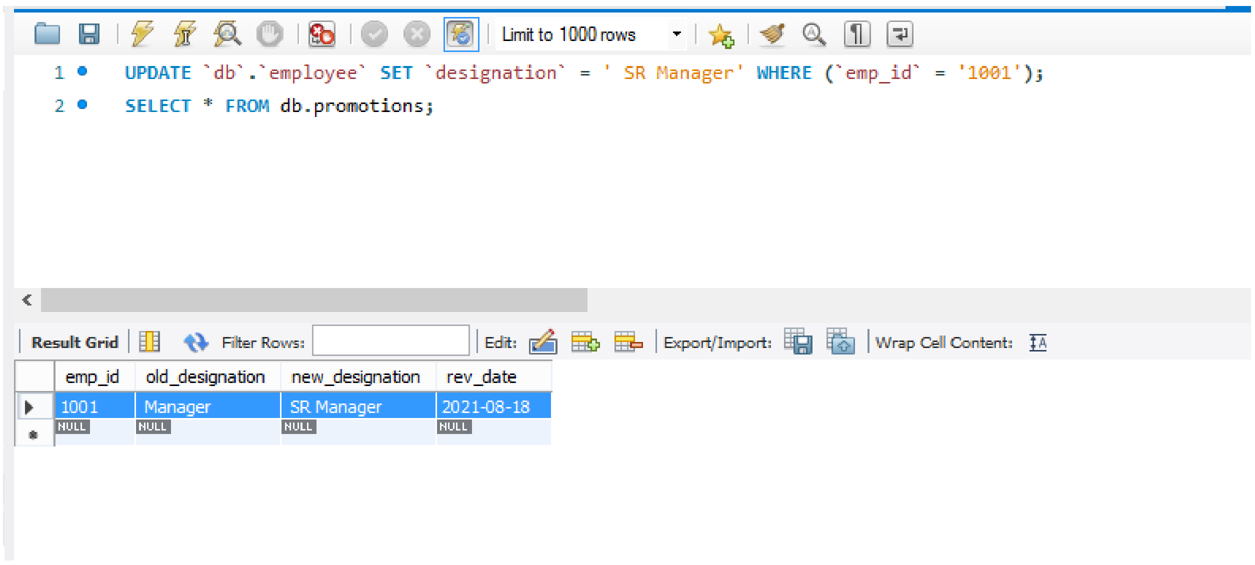
TRIGGER

```
CREATE DEFINER=`root`@`localhost`
TRIGGER`db`.`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;
```

UPDATE `db`.`employee` SET `designation` = ' SR Manager' WHERE (`emp_id` = '1001');

SELECT * FROM db.promotions;



```
UPDATE `db`.`employee` SET `designation` = ' SR Manager' WHERE (`emp_id` = '1001');
SELECT * FROM db.promotions;
```

emp_id	old_designation	new_designation	rev_date
1001	Manager	SR Manager	2021-08-18
NULL	NULL	NULL	NULL