

Bansilal Ramnath Agarwal Charitable Trust's Vishwakarma Institute of Information Technology

Department of Artificial Intelligence and Data Science

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Class: SY Division: B Roll No: 272028

Semester: III Academic Year: 2022-2023

Subject Name & Code: Database Management System: ADUA21204

Title of Assignment: Write a database trigger on Employee table. The System should keep track of the records that are being updated or deleted. The old value of updated or deleted records should be added into a new table when the Employee table is updated. Employee (employee no, employee name, join date, designation, salary).

Assignment No.-06

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	Name:	siddhesh Dilip Khainas				
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	Aim: Database Triggert Romeeurl and sta and notes Triggers): write a database trigger system should sup track of the record that as The old value of updated or deleted record show table when the employee table is updated. En employee name, join date, designation, sale	on Employer table. The relief updated or deleted and we added into a new appropriate (Employeeus,				
1.	Brig Trigger:					
	A trigger is a stored procedure in database we whenever a special event in the database occ	rich automatically rubbes				
	can ve invoked when a now is inserted into a specified table on when					
	certain table columns are being updated.	, 0				
	syntanc:					
	create trigger (trigger_ name)					
	[vegore] cyter]	,				
	& insert/update)delete					
	on(table name)					
	[foreachyou]					
	[migger_body]					
	The state of the s					
9	Brief about Rom level and statement level	Migael				
→	Rou Level trigger: Rou level trigger execute					
	every row in the traction transaction. spect					
	Les data auditing purpose. "for REA Each Y	ca campt a pressur or				
	CREATE TRICGER command.					

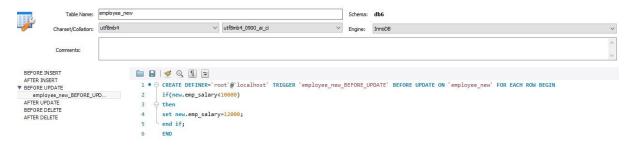
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	Statement level triggues: statement level triggers execute only once for each single transaction used for enforcing all additional security on the transaction performed on table. "for each tour" clause is omitted in CREATE TRIGGER command.
	A single son of trigger: A single son statement can potentially fire up to four types of triggues: BEFORE now trigger. AFTER now triggues.
(11) (1v)	AFTER now triggers.

Implementation:

Old employee table

```
1
       insert into employee old values
2
       (1,"AAA",20200101,"Intern",6000),(2,"BBB",20200101,"Intern",7000),
       (3, "CCC", 20180101, "Manager", 35000),
3
       (4,"DDD",20190101,"Employee",15000),(5,"EEE",20190101,"Employee",18000),
4
       (6, "FFF", 20200101, "Intern", 9000);
5
Edit:
    emp_id
            emp_name
                       emp_join
                                  designation
                                              emp_salary
    1
            AAA
                       2020-01-01
                                  Intern
                                             6000
    2
            BBB
                       2020-01-01
                                  Intern
                                             7000
    3
            CCC
                       2018-01-01
                                  Manager
                                             35000
                                  Employee
    4
            DDD
                       2019-01-01
                                             15000
    5
            EEE
                       2019-01-01
                                  Employee
                                             18000
                       2020-01-01
    6
                                  Intern
                                             9000
            FFF
   NULL
           NULL
                      NULL
                                  NULL
                                             NULL
```

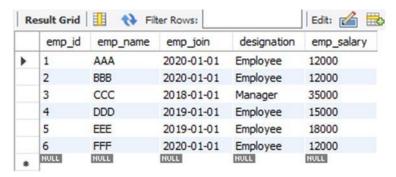
Before update trigger command



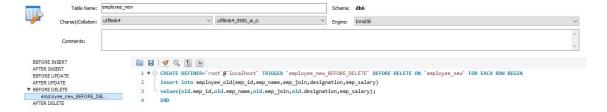
Before update trigger and generated table



New Employee table



Before delete trigger command



Old Employee table containing deleted values



New Employee table

```
delete from employee_new where emp_salary=12000;
```

3 • select * from employee_new;

R	esult Grid	1 (1) Fi	lter Rows:		Edit:
	emp_id	emp_name	emp_join	designation	emp_salary
•	3	CCC	2018-01-01	Manager	35000
	4	DDD	2019-01-01	Employee	15000
	5	EEE	2019-01-01	Employee	18000
	NULL	HULL	NULL	NULL	NULL