

# Assignment 7

## 1.Insert Trigger

```
use Company;
GO
Create Trigger tr_Employees_ForInsert
on Employees
For Insert
As
BEGIN
    Declare @Id int
    Select @Id= Emp_Id from Inserted

    insert into Employee_Test_Audit
    values(@Id,('New Employee with id =' + cast(@Id as nchar(10)) + 'is added
at'+cast(GETDATE() as nvarchar)))

END
Go

insert into Employees values(122, 'Mayank', 'Singh', 'Trichy', '2019-02-01', 75000, 3, 1);
select * from Employees;
Select * from Employee_Test_Audit;
```

The screenshot displays the Microsoft SQL Server Management Studio interface. The query window shows the execution of a trigger and the resulting data. The query executed is:

```
Select @Id= Emp_Id from Inserted

insert into Employee_Test_Audit
values(@Id,('New Employee with id =' + cast(@Id as nchar(10)) + 'is added at'+cast(GETDATE() as nvarchar)))
```

The Results pane shows the data from the Employees table, including columns: Emp\_Id, Emp\_FirstName, Emp\_LastName, Emp\_City, DOB, Salary, DIO, and BID. The data is as follows:

Emp_Id	Emp_FirstName	Emp_LastName	Emp_City	DOB	Salary	DIO	BID
101	Rishi	Singh	Kaasa	2015-01-08	30250.00	1	2
102	Abhey	Gupta	Kaasa	2018-01-01	42350.00	2	1
103	Amit	Gupta	Kushinagar	2017-01-08	44000.00	3	3
104	Atul	Gupta	Kushinagar	2017-02-10	55000.00	4	4
105	Neha	Singh	Padrauna	2018-02-10	49500.00	5	1
107	Rohit	Gupta	Deoria	2018-01-10	60000.00	1	3
108	Humanshu	Singh	Deoria	2017-02-08	30250.00	2	4
109	Pragati	Gupta	Sapaha	2016-01-11	55000.00	3	1
110	Anadrya	Kurwaha	Kaasa	2019-03-12	70000.00	4	2
111	Anamika	Singh	Kaasa	2019-01-08	30250.00	5	3
113	Anuj	Singh	Kaasa	2015-01-08	30250.00	1	1
114	Suraj	Gupta	Kaasa	2019-01-08	55000.00	2	2
115	Balram	Patel	Kaasa	2016-01-09	60000.00	3	3
116	Aman	Gupta	Bihar	2019-08-08	48400.00	5	4
117	Anuj	Gupta	Bihar	2019-08-08	52600.00	5	4
118	Shyam	Gupta	UP	2019-08-08	56000.00	4	4
119	Mohit	Gupta	Tamilnadu	2017-01-20	66000.00	1	3
120	Rajan	Sah	Kaasa	2015-04-15	76000.00	4	2
121	Mayank	Singh	Trichy	2019-02-01	75000.00	3	1
122	Mayank	Singh	Trichy	2019-02-01	75000.00	3	1

The Messages pane shows the audit data for the inserted row:

Id	AuditData
122	New Employee with id = 122 is added at Feb 15 2023 1:07PM

The status bar at the bottom indicates "Query executed successfully."

## 2.Delete Trigger

```
Go
Create Trigger tr_Employees_ForDelete
on Employees
For Delete
As
BEGIN
    Declare @Id int
    Select @Id= Emp_Id from deleted

    insert into Employee_Test_Audit
    values(@Id,('AnE Existing Employee with id =' + cast(@Id as nchar(10)) + 'is
deleted at'
+ cast(GETDATE() as nvarchar)))

END
Go
```

## Table Before Deletion

Emp_Id	Emp_FirstName	Emp_LastName	Emp_City	DOB	Salary	DID	BID
101	Raji	Singh	Kaia	2015-01-08	30250.00	1	2
102	Abhay	Gupta	Kaia	2016-01-01	42350.00	2	1
103	Amit	Gupta	Kushinagar	2017-01-08	44000.00	3	3
104	Abul	Gupta	Kushinagar	2017-02-10	55000.00	4	4
105	Neha	Singh	Padmauna	2018-02-10	49500.00	5	1
107	Rohit	Gupta	Deoria	2016-01-10	60000.00	1	3
108	Himanshu	Singh	Deoria	2017-02-08	30250.00	2	4
109	Pragati	Gupta	Sapaha	2016-01-11	55000.00	3	1
110	Anandya	Kumbhakar	Kaia	2019-03-12	70000.00	4	2
111	Anamika	Singh	Kaia	2019-01-08	30250.00	5	3
113	Anuj	Singh	Kaia	2019-01-08	30250.00	1	1
114	Sunaj	Gupta	Kaia	2019-01-08	55000.00	2	2
115	Balram	Patel	Kaia	2016-01-09	60000.00	3	3
116	Jaman	Gupta	Bihar	2019-06-08	49400.00	5	4
117	Anuj	Gupta	Bihar	2019-06-08	50600.00	5	4
118	Shyam	Gupta	UP	2019-06-08	56000.00	4	4
119	Mahit	Gupta	Tamilnadu	2017-01-20	66000.00	1	3
120	Rajan	Sah	Kaia	2018-04-15	76000.00	4	2
121	Mayank	Singh	Trichy	2019-02-01	75000.00	3	1
122	Mayank	Singh	Trichy	2019-02-01	75000.00	3	1

## Table After Deletion

```
Delete from Employees where Emp_Id=122;
select * from Employees;
Select * from Employee_Test_Audit;
```

SQLQuery7.sql - LAPTOP-0620UP2L\SQLEXPRESS\Company (LAPTOP-0620UP2L\91788 (82)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

Connect LAPTOP-0620UP2L\SQLEXPRESS (SQL S

Databases

Security

Server Objects

Replication

Management

XEvent Profiler

```
values(@Id,('An Existing Employee with id ='+cast(@Id as nchar(10))+ 'is deleted at'+cast(GETDATE() as nvarchar)))
```

END

GO

Results Messages

Emp_Id	Emp_FirstName	Emp_LastName	Emp_City	DOJ	Salary	DID	BID
101	Roli	Singh	Kaia	2015-01-08	30250.00	1	2
102	Abhay	Gupta	Kaia	2016-01-01	42350.00	2	1
103	Amit	Gupta	Kushnagar	2017-01-08	44000.00	3	3
104	Atul	Gupta	Kushnagar	2017-02-10	55000.00	4	4
105	Neha	Singh	Padrauna	2019-02-10	49500.00	5	1
107	Rohit	Gupta	Deoria	2016-01-10	60000.00	1	3
108	Hemanshu	Singh	Deoria	2017-02-08	30250.00	2	4
109	Pragati	Gupta	Sapaha	2016-01-11	55000.00	3	1
110	Aradhya	Kumwaha	Kaia	2019-03-12	70000.00	4	2
111	Anamika	Singh	Kaia	2019-01-08	30250.00	5	3
113	Anuj	Singh	Kaia	2019-01-08	30250.00	1	1
114	Sunaj	Gupta	Kaia	2019-01-08	55000.00	2	2
115	Balram	Patel	Kaia	2016-01-09	60000.00	3	3
116	Aman	Gupta	Bihar	2019-08-08	48400.00	5	4
117	Anuj	Gupta	Bihar	2019-08-08	50600.00	5	4
118	Shyam	Gupta	UP	2019-08-08	56000.00	4	4
119	Mohit	Gupta	Tamilnadu	2017-01-20	66000.00	1	3
120	Rajan	Sah	Kaia	2019-04-15	76000.00	4	2
121	Mayank	Singh	Trichy	2019-02-01	75000.00	3	1

Id AuditData

1	122	New Employee with id =122 is added at Feb -
2	122	An Existing Employee with id =122 is delete...

Query executed successfully.

LAPTOP-0620UP2L\SQLEXPRESS - LAPTOP-0620UP2L\91788 - Company 00:00:00 21 rows

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