**Subject: DataBase**

**Project: Courier Management System**

Logo, company name

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**Submitted by:**

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**Triggers**

/\*=========== Employee History Table========\*/

--Employee History Table

CREATE TABLE EmployeeHistory(

id INT IDENTITY(1,1),

History VARCHAR(200)

)

--After Insert Trigger For Employee Table

CREATE TRIGGER employeeAfterInsert

ON Employee

FOR INSERT

AS

BEGIN

Declare @id int

Select @id = EmployeeID from inserted

insert into EmployeeHistory

values('New employee with Id = ' + Cast(@id as nvarchar(200)) + ' is added at ' + cast(Getdate() as nvarchar(200)))

END

--insert values in table

INSERT INTO Employee

VALUES

(1202,'Hasan','0336-6873007',202,'Gojra','Pakistan','hasan182@gmail.com',2,'HM35')

select \* from Employee

select \* from EmployeeHistory

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--After Delete Trigger For Employee Table

CREATE TRIGGER employeeAfterDelete

ON Employee

FOR DELETE

AS

BEGIN

Declare @id int

Select @id = EmployeeID from deleted

insert into EmployeeHistory

values('An existing employee with Id = ' + Cast(@id as nvarchar(200)) + ' is deleted at ' + Cast(Getdate() as nvarchar(200)))

END

DELETE FROM Employee where EmployeeID=1202;

select \* from EmployeeHistory

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/\*After Update Table and Record to another new table\*/

SELECT \* FROM Employee;

CREATE TABLE Employee\_Audit (

EmployeeID INT,

Name VARCHAR(200) NOT NULL,

PhoneNumber VARCHAR(200) UNIQUE NOT NULL,

street\_no INT NOT NULL,

city VARCHAR(200) NOT NULL,

country VARCHAR(200) NOT NULL,

Email VARCHAR(200),

DesignationRole INT,

BranchCode VARCHAR(100),

Change\_Date DateTime

);

CREATE Trigger Employee\_History

On Employee

After Update

As

Begin

Set Nocount On;

Insert Into Employee\_Audit(EmployeeID,Name,PhoneNumber,street\_no,city,country,Email,DesignationRole,BranchCode,Change\_Date)

Select EmployeeID,Name,PhoneNumber,street\_no,city,country,Email,DesignationRole,BranchCode,GetDate() From Inserted I

End;

Select \* From Employee

Select \* From Employee\_Audit

Update Employee Set Name = 'Haris' Where EmployeeID = 1003

Graphical user interface, text, application

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/\*After Update delivery status Table and Record to another new table\*/

SELECT \* FROM DeliveryInfo;

CREATE TABLE DeliveryInfoHistory(

DeliveryID INT,

TOADDRESS\_street\_no INT NOT NULL,

City VARCHAR(200),

Country VARCHAR(200),

DueDate DATE,

TrackingID VARCHAR(200) NOT NULL,

CustomerID INT ,

VehicleNumber VARCHAR(200) ,

CategoryID INT ,

DeliveryStatus INT,

changeDate DATETIME

);

CREATE Trigger DeliveryHistory

On DeliveryInfo

After Update

As

Begin

Set Nocount On;

Insert Into DeliveryInfoHistory(DeliveryID,TOADDRESS\_street\_no,City,Country,DueDate,TrackingID,CustomerID,VehicleNumber,CategoryID,DeliveryStatus,changeDate)

Select DeliveryID,TOADDRESS\_street\_no,City,Country,DueDate,TrackingID,CustomerID,VehicleNumber,CategoryID,DeliveryStatus,GetDate() From Inserted I

End;

Select \* From DeliveryInfo

Select \* From DeliveryInfoHistory

Update DeliveryInfo Set DeliveryStatus = 2 Where DeliveryID = 1104

DELETE FROM DeliveryInfo WHERE DeliveryID=1122

Graphical user interface, application

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--Shift History Table

CREATE TABLE vehicleShiftHistory(

id INT IDENTITY(1,1),

History VARCHAR(200)

)

--After Insert Trigger For Shift Table

CREATE TRIGGER shiftAfterInsert

ON vehicleShift

FOR INSERT

AS

BEGIN

Declare @id int

Select @id = ShiftID from inserted

insert into vehicleShiftHistory

values('New shift with Id = ' + Cast(@id as nvarchar(200)) + ' is added at ' + cast(Getdate() as nvarchar(200)))

END

Graphical user interface, text, application, email

Description automatically generated

--After Delete Trigger For SHIFT Table

CREATE TRIGGER shiftAfterDelete

ON VehicleShift

FOR DELETE

AS

BEGIN

Declare @id int

Select @id = ShiftID from deleted

insert into vehicleShiftHistory

values('New shift with Id = ' + Cast(@id as nvarchar(200)) + ' is deleted at ' + Cast(Getdate() as nvarchar(200)))

END

DELETE FROM VehicleShift WHERE ShiftID=301

select \* from vehicleShiftHistory

Graphical user interface, text, application, email

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Diagram, schematic

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