--1. create a table-valued function that returns a list of orders including order id, customer id, order status, store id and staff id for the given year range

CREATE FUNCTION test2 (

@order\_date Date, @order\_date2 Date

)

RETURNS TABLE

AS

RETURN

SELECT

order\_id,customer\_id,order\_date,order\_status, store\_id,staff\_id

FROM

sales.orders

WHERE

order\_date between @order\_date and @order\_date2;

select \* from test2('2016','2017')

2. create a trigger that logs all removed records of customers table

CREATE TABLE sales.customer\_audits(

change\_id INT IDENTITY PRIMARY KEY,

customer\_id INT NOT NULL,

first\_name VARCHAR(255) NOT NULL,

last\_name VARCHAR(255) NOT NULL,

phone VARCHAR(255) NOT NULL,

email VARCHAR(255) NOT NULL,

street VARCHAR(255) NOT NULL,

city VARCHAR(255) NOT NULL,

state VARCHAR(255) NOT NULL,

zip\_code VARCHAR(255) NOT NULL,

updated\_at DATETIME NOT NULL,

operation CHAR(3) NOT NULL,

CHECK(operation='DEL')

);

CREATE TRIGGER sales.trg\_customer\_audit

ON sales.customers

AFTER DELETE

AS

BEGIN

SET NOCOUNT ON;

INSERT INTO sales.customer\_audits(customer\_id, first\_name,last\_name,phone,email,street, city,state,zip\_code,updated\_at, operation)

SELECT

customer\_id, first\_name, last\_name,phone, email, street, city,state,zip\_code, GETDATE(),'DEL'

FROM

deleted;

END

select \* from sales.customer\_audits

select \* from sales.customers

Delete from sales.customers

where customer\_id=873