

Using 3 tables Customers, Orders, Products in Northwind database

1. Create a trigger named checkCustomerOnInsert. The trigger should check if Phone is null then rollback transaction

```
CREATE TRIGGER checkCustomerOnInsert
ON Customers
FOR INSERT
AS
DECLARE @CustomerID NVARCHAR(40)
DECLARE @Phone NVARCHAR(24)
SELECT @CustomerID = CustomerID, @Phone = Phone FROM Inserted
--check Phone not null
IF @Phone is null
BEGIN
    PRINT 'Phone khong duoc null'
    ROLLBACK
END
```

2. Create a trigger named checkCustomerCountryOnUpdate. The trigger should do: not allow users to update customers whose country is France

```
CREATE TRIGGER checkCustomerCountryOnUpdate
ON Customers
FOR UPDATE
AS
DECLARE @OldCountry NVARCHAR(15)
SELECT @OldCountry = Country FROM deleted
IF @OldCountry = 'France'
BEGIN
    PRINT 'Khong the cap nhat voi nhung ban ghi co Country la France'
END
```

3. Add a new column named Active to Customers table and set its default value to 1. Create a trigger named checkCustomerInsteadOfDelete to update Active=0 instead of deleting that record.

```
CREATE TRIGGER checkCustomerInsteadOfDelete
ON Customers
INSTEAD OF DELETE
AS
DECLARE @id NCHAR(5)
SELECT @id = CustomerID FROM deleted
UPDATE Customers SET Active = 0 WHERE CustomerID = @id
```

4. Set checkCustomerCountryOnUpdate's priority to the first

```
EXEC sp_settriggerorder 'checkCustomerCountryOnUpdate',
first,'update'
```

5. Create a trigger named **safety** to disable all actions: CREATE\_TABLE, DROP\_TABLE, ALTER\_TABLE

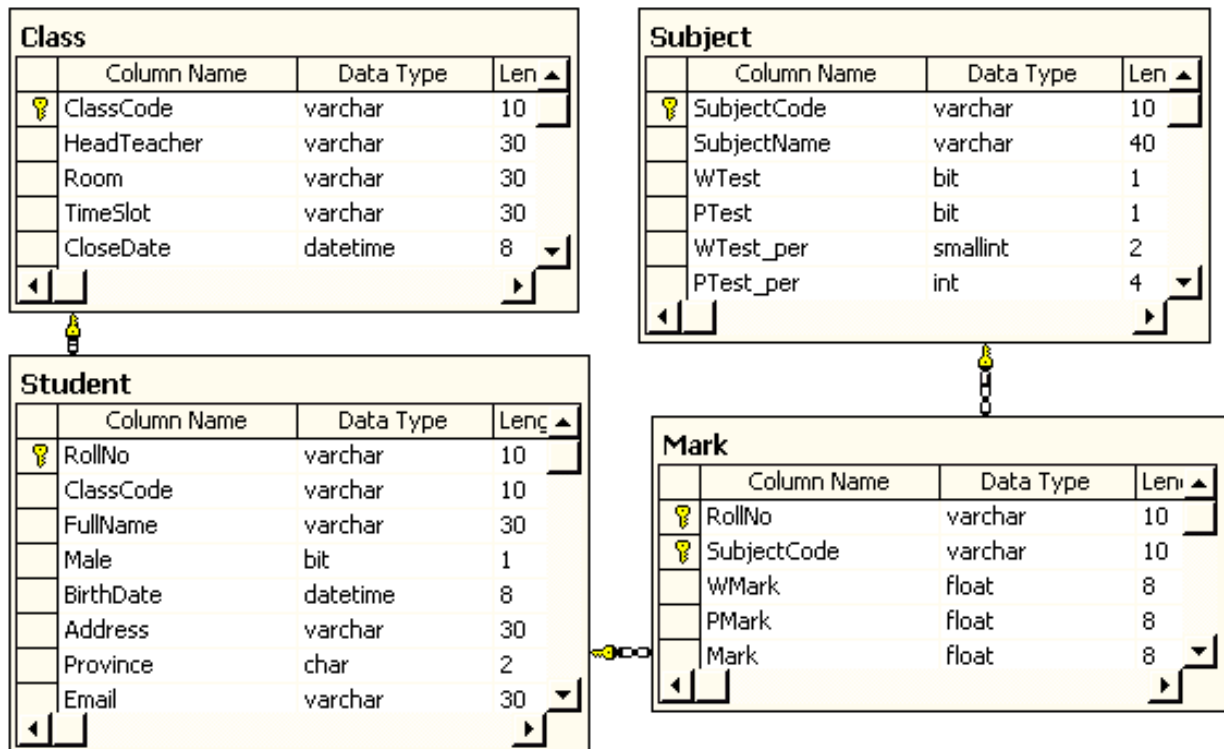
```
CREATE TRIGGER safety
ON DATABASE
FOR CREATE_TABLE, DROP_TABLE, ALTER_TABLE
AS
    PRINT 'You must disable Trigger "safety" to drop, create or
alter tables!'
    ROLLBACK ;
```

6. Disable trigger **safety** that was created above

Disable trigger safety on database

### Do It Yourself

- 5.1. Create the following database



1. Create a trigger to make sure that users cannot insert Mark's value outside the range 0->25

2. Create a trigger to make sure that users cannot update Mark's value less than the current value
- 5.2. Do the workshop 9 in the CD
- 5.3. Do the assignment 9 in the CD