

Using 2 tables Customers and Orders in Northwind database

1. Create view named CustomerOrder that has following columns:

CustomerID, CompanyName, Address, OrderDate, Freight, ShipCountry.

The view must meet the following condition: ShipCountry must match in one of the following values: UK, Austria, and France

```
CREATE VIEW CustomerOrder
AS
SELECT      Customers.CustomerID,
            Customers.CompanyName,
            Customers.Address,
            Orders.OrderDate,
            Orders.Freight,
            Orders.ShipCountry
FROM        Orders INNER JOIN Customers
            ON Orders.CustomerID = Customers.CustomerID
WHERE ShipCountry in ('UK', 'Austria', 'France')
```

2. Change the view's name to CustomerOrders

```
sp_rename CustomerOrder, CustomerOrders
```

3. Using sp_helptext to view CustomerOrders's definition

```
sp_helptext "CustomerOrders"
```

4. Using sp_depends to view CustomerOrders's dependencies

```
sp_depends "CustomerOrders"
```

5. Alter CustomerOrders's definition to include the **schemabinding** attribute

```
ALTER VIEW CustomerOrders
WITH SCHEMABINDING
AS
SELECT      Customers.CustomerID,
            Customers.CompanyName,
            Customers.Address,
            Orders.OrderDate,
            Orders.Freight,
            Orders.ShipCountry
FROM        dbo.Orders INNER JOIN    dbo.Customers
            ON Orders.CustomerID = Customers.CustomerID
WHERE ShipCountry in ('UK', 'Austria', 'France')
```

6. Write code to change ShipCountry's datatype to nvarchar(115). Analyze the result and explain it.

```
Alter table Orders
    alter column ShipCountry nvarchar(115)
```

7. Add the WITH CHECK OPTION attribute to the view

```
ALTER VIEW CustomerOrders
WITH SCHEMABINDING
AS
SELECT      Orders.CustomerID,
            Customers.CompanyName,
            Customers.Address,
            Orders.OrderDate,
            Orders.Freight,
            Orders.ShipCountry
FROM        dbo.Orders INNER JOIN    dbo.Customers
            ON Orders.CustomerID = Customers.CustomerID
WHERE ShipCountry in ('UK', 'Austria', 'France')
WITH CHECK OPTION
```

8. Insert a new row into CustomersOrder with the following values:

- CustomerID = AROUT
- ShipCountry = UK

A new record will be inserted into the view and also the Orders table

9. Alter CustomersOrder to include columns: OrderId, OrderDate, Freight, ShipCountry from Orders table

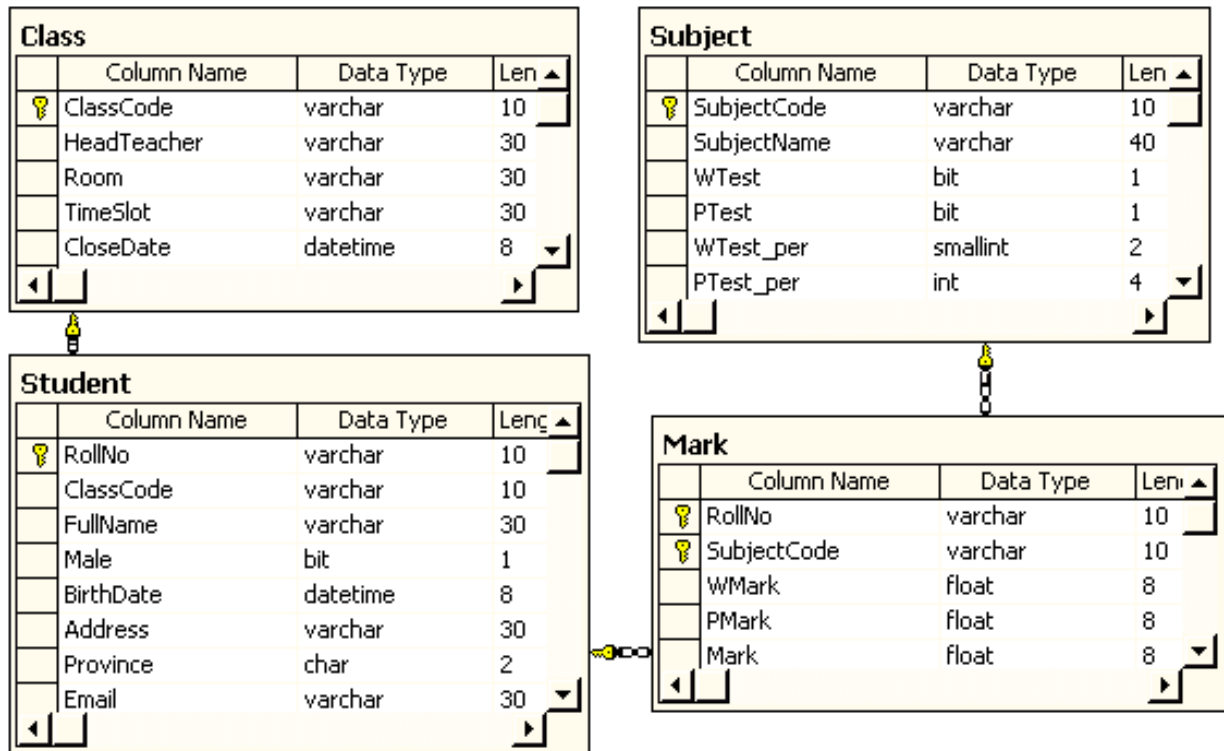
```
ALTER VIEW CustomerOrders
WITH SCHEMABINDING
AS
SELECT  OrderID,
        OrderDate,
        Freight,
        ShipCountry
FROM    dbo.Orders
```

10. Create a clustered index named testCluster on column OrderID

```
Create unique clustered index testCluster on CustomerOrders(OrderID)
```

Do It Yourself

3.1. Create the following database



1. Create a view named viewClass1 contains ClassCode, HeadTeacher column. The view should include all classes which have less or equal than 17 students.
2. Insert some data into viewClass1
3. Add Schemabinding option to viewClass1

3.2. Do the workshop 5, 6 in the CD

3.3. Do the assignment 6 in the CD