```sql
--Assignment 3
--Enze Zhang
USE Northwind
GO
--1)
CREATE VIEW view_product_order_Zhang
AS
SELECT p.ProductID, p.ProductName, SUM(od.Quantity) AS TotalOrderQty
FROM Products p JOIN [Order Details] od ON p.ProductID = od.ProductID
GROUP BY p.ProductID, p.ProductName

GO

SELECT * FROM view_product_order_Zhang

GO
--2)
CREATE PROC sp_product_order_quantity_Zhang
@pid int,
@pQty int OUT
AS
BEGIN
SELECT @pQty = v.TotalOrderQty
FROM view_product_order_Zhang v
WHERE @pid = v.ProductID
END

GO
DECLARE @P2Qty int
EXEC sp_product_order_quantity_Zhang 24, @P2Qty OUT
SELECT @P2Qty AS TotalOrderQty
GO


--3)
CREATE PROC sp_product_order_city_Zhang
@pName varchar(30)
AS
BEGIN
SELECT TOP 5 c.City,SUM(od.Quantity) AS TotalQtyByCity
FROM Products p JOIN [Order Details] od ON p.ProductID = od.ProductID JOIN Orders
o ON od.OrderID = o.OrderID JOIN Customers c ON o.CustomerID = c.CustomerID
WHERE @pName = p.ProductName
GROUP BY c.City
ORDER BY TotalQtyByCity DESC
END
GO

DECLARE @PPName varchar(30)
SET @PPName = 'Chai'
EXEC sp_product_order_city_Zhang @PPName
GO

--4)
CREATE TABLE city_Zhang(
Id int,
City varchar(20)
)
GO
```

```sql
CREATE TABLE people_Zhang(
Id int,
Name varchar(20),
City int
)
GO
INSERT INTO city_Zhang VALUES(1,'Seattle')
INSERT INTO city_Zhang VALUES(2,'Green Bay')
INSERT INTO people_Zhang VALUES(1, 'Aaron Rodgers', 2)
INSERT INTO people_Zhang VALUES(2, 'Russell Wilson', 1)
INSERT INTO people_Zhang VALUES(3,'Jody Nelson', 2)
GO

DELETE FROM city_Zhang
WHERE City = 'Seattle'

INSERT INTO city_Zhang VALUES(3,'Madison')
UPDATE people_Zhang
SET City = 3
WHERE City = 1

GO

CREATE VIEW Packers_Enze_Zhang
AS
SELECT p.Name
FROM people_Zhang p JOIN city_Zhang c ON p.City = c.Id
WHERE c.City = 'Green Bay'
GO

SELECT *
FROM Packers_Enze_Zhang
GO

DROP VIEW Packers_Enze_Zhang
DROP TABLE people_Zhang
DROP TABLE city_Zhang
GO

--5)
CREATE PROC sp_birthday_employees_Zhang
AS
CREATE TABLE birthday_employees_Zhang(
EmployeeID int,
LastName varchar(20),
FirstName varchar(20)
)
INSERT INTO birthday_employees_Zhang (EmployeeID,LastName,FirstName)
SELECT EmployeeID,LastName,FirstName
FROM Employees
WHERE MONTH(BirthDate) = 2

SELECT * FROM birthday_employees_Zhang
DROP TABLE birthday_employees_Zhang
GO

EXEC sp_birthday_employees_Zhang
```

```sql
--5)
CREATE PROC sp_birthday_employees_Zhang
AS
CREATE TABLE birthday_employees_Zhang(
EmployeeID int,
LastName varchar(20),
FirstName varchar(20)
)
INSERT INTO birthday_employees_Zhang (EmployeeID,LastName,FirstName)
SELECT EmployeeID,LastName,FirstName
FROM Employees
WHERE MONTH(BirthDate) = 2

SELECT * FROM birthday_employees_Zhang
DROP TABLE birthday_employees_Zhang
GO

EXEC sp_birthday_employees_Zhang
```

100 %

Results | Messages

	EmployeeID	LastName	FirstName
1	2	Fuller	Andrew

```sql
--6)

CREATE TABLE CheckTable1(
Data1 int,
Data2 int
)

INSERT INTO CheckTable1 VALUES (20, 100)
INSERT INTO CheckTable1 VALUES (30, 150)
SELECT * FROM CheckTable1

CREATE TABLE CheckTable2(
Data1 int,
Data2 int
)

INSERT INTO CheckTable2 VALUES (20, 100)
INSERT INTO CheckTable2 VALUES (30, 150)
SELECT * FROM CheckTable2

SELECT * FROM CheckTable1
EXCEPT
SELECT * FROM CheckTable2

SELECT * FROM CheckTable2
EXCEPT
SELECT * FROM CheckTable1
```

```sql
UPDATE CheckTable2
SET Data2 = 300
WHERE Data1 = 30
SELECT * FROM CheckTable2

SELECT * FROM CheckTable1
EXCEPT
SELECT * FROM CheckTable2

SELECT * FROM CheckTable2
EXCEPT
SELECT * FROM CheckTable1
--If there are any rows appearing after 2 commands above, there are different data
in the tables
DROP TABLE CheckTable1
DROP TABLE CheckTable2
```