

Assignment 4 – Scripts

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Question 1:

```
SELECT O.orderid, O.orderdate, O.custid, C.companyname
FROM Sales.Customers as C
JOIN Sales.Orders AS O
ON C.custid = O.custid
```

```
JOIN Sales.OrderDetails AS OD
ON O.orderid = OD.orderid
```

```
JOIN Production.Products AS P
ON OD.productid = P.productid
```

```
JOIN Production.Categories AS PC
ON P.categoryid = PC.categoryid
```

```
WHERE PC.categoryname = 'Confections'
AND
EXISTS (SELECT * FROM Sales.Orders AS O
WHERE O.custid = C.custid)
```

Question 2:

```
SELECT P.productid, P.productname,
SUM (OD.qty * OD.unitprice) AS [Total Amount], O.shipcountry
FROM Production.Products AS P
JOIN Sales.OrderDetails AS OD
ON P.productid = OD.productid
```

```
JOIN Sales.Orders AS O
ON O.orderid = OD.orderid
```

```
WHERE O.shipcountry =
(SELECT O.shipcountry FROM Sales.Orders AS O
WHERE OD.orderid = O.orderid AND
O.shipcountry = 'USA')
```

```
GROUP BY P.productid, P.productname, O.shipcountry
```

Question 3:

```
SELECT O.orderid, O.orderdate, O.custid,  
C.companyname  
FROM Sales.Customers as C  
JOIN Sales.Orders AS O  
ON C.custid = O.custid
```

```
JOIN Sales.OrderDetails AS OD  
ON O.orderid = OD.orderid
```

```
JOIN Production.Products AS P  
ON OD.productid = P.productid
```

```
JOIN Production.Categories AS PC  
ON P.categoryid = PC.categoryid
```

```
WHERE PC.categoryname IN
```

```
(SELECT PC.categoryname  
FROM Production.Categories AS PC  
JOIN Production.Products AS P  
ON PC.categoryid = P.categoryid
```

```
JOIN Sales.OrderDetails AS OD  
ON OD.productid = P.productid
```

```
JOIN Sales.Orders AS O  
ON O.orderid = OD.orderid
```

```
JOIN Sales.Customers AS C  
ON C.custid = O.custid
```

```
WHERE PC.categoryname = 'Confections')
```

```
GROUP BY O.orderid, O.orderdate, O.custid, C.companyname  
HAVING COUNT (O.orderid) >= 0
```

Question 4:

```
CREATE PROCEDURE Select_Category_P @P1 VARCHAR(50)
```

```
AS
```

```
SELECT O.orderid, O.orderdate, O.custid, C.companyname  
FROM Sales.Customers as C  
JOIN Sales.Orders AS O  
ON C.custid = O.custid
```

```
JOIN Sales.OrderDetails AS OD  
ON O.orderid = OD.orderid
```

```
JOIN Production.Products AS P  
ON OD.productid = P.productid
```

```
JOIN Production.Categories AS PC  
ON P.categoryid = PC.categoryid
```

```
WHERE PC.categoryname = @P1  
AND  
EXISTS (SELECT * FROM Sales.Orders AS O  
WHERE O.custid = C.custid)
```

EXECUTE:

```
EXEC Select_Category_P Confections
```

Question 5:

```
CREATE PROCEDURE Select_Country_P @Country VARCHAR(50)
```

```
AS
```

```
SELECT P.productid, P.productname,  
SUM (OD.qty * OD.unitprice) AS [Total Amount], O.shipcountry  
FROM Production.Products AS P  
JOIN Sales.OrderDetails AS OD  
ON P.productid = OD.productid
```

```
JOIN Sales.Orders AS O  
ON O.orderid = OD.orderid
```

```
WHERE O.shipcountry =  
(SELECT O.shipcountry FROM Sales.Orders AS O  
WHERE OD.orderid = O.orderid AND  
O.shipcountry = @Country)
```

```
GROUP BY P.productid, P.productname, O.shipcountry
```

EXETUCE:

```
EXEC Select_Country_P USA
```

Question 6:

```
SELECT O.orderid, O.orderdate, O.custid,  
C.companyname  
FROM Sales.Customers as C  
JOIN Sales.Orders AS O  
ON C.custid = O.custid
```

```
JOIN Sales.OrderDetails AS OD  
ON O.orderid = OD.orderid
```

```
JOIN Production.Products AS P  
ON OD.productid = P.productid
```

```
JOIN Production.Categories AS PC  
ON P.categoryid = PC.categoryid
```

```
WHERE PC.categoryname NOT IN
```

```
(SELECT PC.categoryname  
FROM Production.Categories AS PC  
JOIN Production.Products AS P  
ON PC.categoryid = P.categoryid
```

```
JOIN Sales.OrderDetails AS OD  
ON OD.productid = P.productid
```

```
JOIN Sales.Orders AS O  
ON O.orderid = OD.orderid
```

```
JOIN Sales.Customers AS C  
ON C.custid = O.custid
```

```
WHERE PC.categoryname = 'Confections')
```

```
GROUP BY O.orderid, O.orderdate, O.custid, C.companyname  
HAVING COUNT (O.orderid) > 0
```

Question 7:

```
CREATE PROCEDURE Failed_Category @category VARCHAR(50)
AS

IF NOT EXISTS
(SELECT PC.categoryname
FROM Production.Categories AS PC
JOIN Production.Products AS P
ON PC.categoryid = P.categoryid

JOIN Sales.OrderDetails AS OD
ON OD.productid = P.productid

JOIN Sales.Orders AS O
ON O.orderid = OD.orderid

JOIN Sales.Customers AS C
ON C.custid = O.custid

WHERE PC.categoryname = @category)

PRINT 'Failed to order this category'

ELSE

SELECT O.orderid, O.orderdate, O.custid,
C.companyname
FROM Sales.Customers as C
JOIN Sales.Orders AS O
ON C.custid = O.custid

JOIN Sales.OrderDetails AS OD
ON O.orderid = OD.orderid

JOIN Production.Products AS P
ON OD.productid = P.productid

JOIN Production.Categories AS PC
ON P.categoryid = PC.categoryid

GROUP BY O.orderid, O.orderdate, O.custid, C.companyname, PC.categoryname
HAVING COUNT (O.orderid) > 0

EXECUTE: EXEC Failed_Category Confectionos
```