

Lab 6

Query Writing, Database Triggers, Stored Procedures

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You have one week from the assigned date of this lab to submit this completed paper sheet to Professor Rieks for grading. Copy / Paste the images as requested in the lab. Make sure you label each section appropriately so Professor Rieks can identify each properly.

Exercise 1:

```
SELECT      Customer.FirstName, Customer.LastName, [Order].OrderNumber, Product.ProductName,
format([Order].OrderDate, 'M/d/yyyy') as [Date Ordered], OrderItem.UnitPrice, OrderItem.Quantity,
OrderItem.UnitPrice*OrderItem.Quantity as [Sub Total]
FROM        Customer INNER JOIN
            [Order] ON Customer.Id = [Order].CustomerId INNER JOIN
            OrderItem ON [Order].Id = OrderItem.OrderId INNER JOIN
            Product ON OrderItem.ProductId=Product.Id
where dbo.[Order].OrderNumber IN (542378,542379,542383)
```

	FirstName	LastName	OrderNumber	ProductName	Date Ordered	UnitPrice	Quantity	Sub Total
1	Paul	Henriot	542378	Queso Cabrales	7/4/2012	14.00	12	168.00
2	Paul	Henriot	542378	Singaporean Hokkien Fried Mee	7/4/2012	9.80	10	98.00
3	Paul	Henriot	542378	Mozzarella di Giovanni	7/4/2012	34.80	5	174.00
4	Karin	Josephs	542379	Tofu	7/5/2012	18.60	9	167.40
5	Karin	Josephs	542379	Manjimup Dried Apples	7/5/2012	42.40	40	1696.00
6	Mario	Pontes	542383	Gorgonzola Telino	7/10/2012	10.00	20	200.00
7	Mario	Pontes	542383	Chartreuse verte	7/10/2012	14.40	42	604.80
8	Mario	Pontes	542383	Maxilaku	7/10/2012	16.00	40	640.00

Exercise 2:

```
select CONCAT(m.firstName, ' ', m.lastName) AS Manager,  
m.jobTitle as 'Job Title of Manager',  
CONCAT(e.firstName, ' ', e.lastName) AS 'Direct Report',  
e.jobTitle as 'Direct Reports Job Title'  
FROM  
Employees e INNER JOIN employees m ON m.employeeNumber = e.reportsTO  
WHERE m.jobTitle IN ('President', 'VP Sales')  
ORDER BY Manager;
```

Results		Messages		
	Manager	Job Title of Manager	Direct Report	Direct Reports Job Title
1	Diane Murphy	President	Mary Patterson	VP Sales
2	Diane Murphy	President	Jeff Firrelli	VP Marketing
3	Mary Patterson	VP Sales	William Patterson	Sales Manager (APAC)
4	Mary Patterson	VP Sales	Gerard Bondur	Sale Manager (EMEA)
5	Mary Patterson	VP Sales	Anthony Bow	Sales Manager (NA)
6	Mary Patterson	VP Sales	Mami Nishi	Sales Rep

Exercise 3:

```
select Customer.FirstName AS [First Name], Customer.LastName AS [Last Name], "Order".OrderNumber AS  
[Order Number], "Order".TotalAmount AS [totalamount]  
from Customer, "Order"  
where Customer.Id = "Order".Id and totalamount < 100  
union  
select Customer.FirstName, Customer.LastName, "Order".OrderNumber, "Order".TotalAmount  
from Customer, "Order"  
where Customer.Id = "Order".Id and totalamount Between 2000 AND 2234  
Order by TotalAmount;
```

Results		Messages		
	First Name	Last Name	Order Number	totalamount
1	Maria	Larsson	542401	48.00
2	Mario	Pontes	542411	86.50
3	Mary	Saveley	542461	88.50
4	Bernardo	Batista	542438	88.80
5	Annette	Roulet	542418	89.00
6	Victoria	Ashworth	542388	2018.60
7	Carine	Schmitt	542403	2142.40
8	John	Steel	542420	2169.00
9	Helen	Bennett	542415	2179.20
10	Paul	Henriot	542462	2233.60

Exercise 4:

```
create table TriggerTable
(
Tracktimeoftrigger time(7) NULL,
Whoami varchar(50) NULL
)
CREATE TRIGGER Showtriggerran
    ON product
AFTER INSERT, UPDATE, DELETE
AS
BEGIN
    Insert into TriggerTable(Tracktimeoftrigger,Whoami)
    values(CURRENT_TIMESTAMP,SYSTEM_USER)
End
```

Results		Messages
	Tracktimeoftrigger	Whoami
1	20:29:20.7000000	AD\rsingh37

Exercise 5:

```
create procedure FindProductAndSupplier (@min_unit_price decimal, @max_unit_price decimal)
as
begin
select dbo.Product.ProductName, dbo.Product.UnitPrice, dbo.Supplier.CompanyName
from dbo.Product inner join dbo.Supplier on dbo.Product.SupplierId = dbo.Supplier.Id
where dbo.Product.UnitPrice >= @min_unit_price and dbo.Product.UnitPrice <= @max_unit_price
order by dbo.Product.UnitPrice
end
EXEC FindProductAndSupplier 50,74
Go
Exec FindProductAndSupplier 75,99;
Go
Exec FindProductAndSupplier 100,200;
Go
```

Results		Messages	
	ProductName	UnitPrice	CompanyName
1	Manjimup Dried Apples	53.00	G'day, Mate
2	Raclette Courdavault	55.00	Gai pâturage
3	Camarvon Tigers	62.50	Pavlova, Ltd.
	ProductName	UnitPrice	CompanyName
1	Sir Rodney's Marmalade	81.00	Specialty Biscuits, Ltd.
2	Mishi Kobe Niku	97.00	Tokyo Traders
	ProductName	UnitPrice	CompanyName
1	Thüringer Rostbratwurst	123.79	Plutzer Lebensmittelgroßmärkte AG