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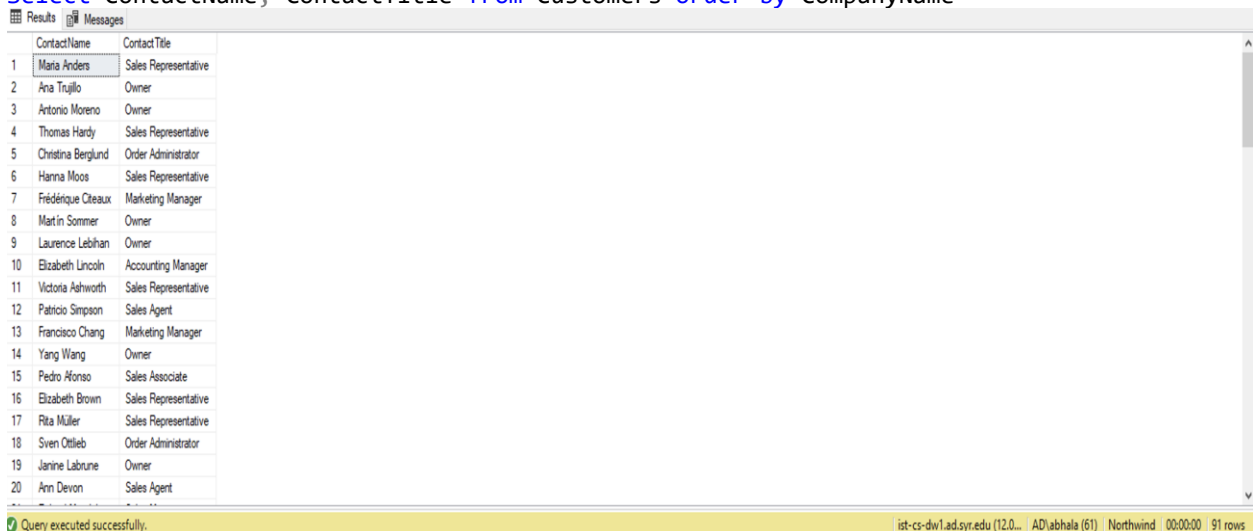
PART 3

Profile the following table in the Northwind Traders database. The first two have been done for you in the previous part.

Table	Type	Row Count	Business Key	One Row Is
Employees	Master Data	9	None (PK used)	An employee
EmployeeTerritories	Business Process	49	None (PKs used)	An employee assigned to a territory.
Customers	Master Data	91	None (PK's used)	A Company name with contact details
Suppliers	Master Data	29	None (PK's used)	A supplier company name
Products	Master Data	77	None (PK's used)	A Product name and its details
Shipments (of Orders)	Business Process	830	None (PK's used)	Shipment details with shipping date
Details (of an Order)	Business Process	2155	None (PK's used)	Details of product with unit and price

1. List the customer contact names and titles sorted by company name.

Select ContactName, ContactTitle from Customers order by CompanyName



ContactName	ContactTitle
Maria Anders	Sales Representative
Ana Trujillo	Owner
Antonio Moreno	Owner
Thomas Hardy	Sales Representative
Christina Berglund	Order Administrator
Hanna Moos	Sales Representative
Frédérique Citeaux	Marketing Manager
Martin Sommer	Owner
Laurence Leblan	Owner
Elizabeth Lincoln	Accounting Manager
Victoria Ashworth	Sales Representative
Patricio Simpson	Sales Agent
Francisco Chang	Marketing Manager
Yang Wang	Owner
Pedro Alonso	Sales Associate
Elizabeth Brown	Sales Representative
Rita Müller	Sales Representative
Sven Ottilie	Order Administrator
Janine Labrune	Owner
Ann Devon	Sales Agent

2. Factoring in discounts, what is total amount of product sold?

```
select count(productID) as numberofproductsold, sum(quantity) as totalunitsold,  
sum((unitprice * quantity) - (unitprice * quantity * Discount)) as  
Totalamountofproductsold  
from [Order Details]
```

	numberofproductsold	totalunitsold	Totalamountofproductsold
1	2155	51317	1265793.03974152

Query executed successfully. ist-cs-dw1.ad.syr.edu (12.0... AD\abhala (51) Northwind 00:00:00 1 rows

2.1 Factoring in discounts, what is total amount of product sold?

total amount of product sold when considering only discounted items

```
select count(productID) as numberofproductsold, sum(quantity) as totalunitsold,  
sum((unitprice * quantity) - (unitprice * quantity * Discount)) as  
Totalamountofproductsold  
from [Order Details] where Discount > 0.0
```

	numberofproductsold	totalunitsold	Totalamountofproductsold
1	838	22718	515094.429466248

Query executed successfully. ist-cs-dw1.ad.syr.edu (12.0... AD\abhala (51) Northwind 00:00:00 1 rows

3. Provide a list of product category names with counts of products in each category.

```
select c.CategoryName, count(p.productName) as count_of_products
from Categories as c
join Products as p
on c.CategoryID = p.CategoryID
group by c.CategoryName;
```

Results	Messages
CategoryName	count_of_products
1 Beverages	12
2 Condiments	12
3 Confections	13
4 Dairy Products	10
5 Grains/Cereals	7
6 Meat/Poultry	6
7 Produce	5
8 Seafood	12

Query executed successfully. ist-cs-dw1.ad.syr.edu (12.0... AD\abhala (81) Northwind 00:00:00 8 rows

4. Select a specific customer, and display that customer's orders with total amount of product sold for each order.

```
select c.ContactName, O.OrderID, sum(OD.Quantity) as
Total_no_of_product_sold, sum(OD.Unitprice * OD.Quantity) as Total_amount_of_product_sold
from Customers as c
join Orders as O
on c.CustomerID = O.CustomerID
join [Order Details] as OD
ON O.OrderID = OD.OrderID
where C.ContactName = 'Yang Wang'
Group by O.OrderID, c.ContactName;
```

Results Messages

	ContactName	OrderID	Totalnoofproductsold	Totalamountofproductsold
1	Yang Wang	10254	57	625.20
2	Yang Wang	10370	65	1174.00
3	Yang Wang	10519	66	2356.00
4	Yang Wang	10731	70	1990.00
5	Yang Wang	10746	83	2311.70
6	Yang Wang	10966	32	1255.60
7	Yang Wang	11029	32	1286.80
8	Yang Wang	11041	60	1887.00

Query executed successfully.

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5. Select a specific employee and each order, how it was shipped (shipvia), the company who shipped it, and the total number of days elapsed from order date to shipped date.

```
select e.FirstName,e.LastName, O.OrderID, O.ShipVia,
```

```
DATEDIFF(DAY,O.OrderDate,O.ShippedDate) AS DAYS_ELAPSED,S.CompanyName
```

```
from Employees as e
```

```
join Orders as O
```

```
on e.EmployeeID = O.EmployeeID
```

```
join Shippers as S
```

```
on O.ShipVia = S.ShipperID
```

```
WHERE E.EmployeeID = '1'
```

```
GROUP BY
```

```
E.LastName,E.FirstName,O.OrderID,O.ShipVia,DATEDIFF(DAY,O.OrderDate,O.ShippedDate),S.CompanyName
```

```
order by DATEDIFF(DAY,O.OrderDate,O.ShippedDate);
```

	FirstName	LastName	OrderID	ShipVia	DAYS_ELAPSED	CompanyName
1	Nancy	Davolo	11039	2	NULL	United Package
2	Nancy	Davolo	11071	1	NULL	Speedy Express
3	Nancy	Davolo	11077	2	NULL	United Package
4	Nancy	Davolo	10270	1	1	Speedy Express
5	Nancy	Davolo	10690	1	1	Speedy Express
6	Nancy	Davolo	10680	1	2	Speedy Express
7	Nancy	Davolo	10713	1	2	Speedy Express
8	Nancy	Davolo	10275	1	2	Speedy Express
9	Nancy	Davolo	10387	2	2	United Package
10	Nancy	Davolo	11067	2	2	United Package
11	Nancy	Davolo	11069	2	2	United Package
12	Nancy	Davolo	10975	3	2	Federal Shipping
13	Nancy	Davolo	10992	3	2	Federal Shipping
14	Nancy	Davolo	10718	3	2	Federal Shipping
15	Nancy	Davolo	10746	3	2	Federal Shipping
16	Nancy	Davolo	10894	1	2	Speedy Express
17	Nancy	Davolo	10733	3	3	Federal Shipping
18	Nancy	Davolo	10776	3	3	Federal Shipping
19	Nancy	Davolo	11064	1	3	Speedy Express
20	Nancy	Davolo	10710	1	3	Speedy Express

Query executed successfully. | ist-cs-dw1.ad.syr.edu (12.0.0.1) | ADlabhala (61) | Northwind | 00:00:00 | 123 rows