

Homework 1

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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 (PK's used)	An Employee assigned to a territory.
Customers	Master Data	91	CustomerID	A customer
Suppliers	Master Data	29	None (PK used)	A supplier
Products	Master Data	77	None (PK used)	Information about the product
Shipments (of Orders)	Business Process	3	None (PK used)	Shipments of Orders by the Customer
Details (of an Order)	Business Process	2,155	OrderID, ProductID	Other miscellaneous details of the product sold

Write SQL Queries to answer the following questions which might be associated with functional business requirements in a data warehouse. For each of the following provide a screen shot of the SQL query, its output, and make sure your name or netid appears in the screenshot.

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

The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is as follows:

```
--1. List the customer contact names and titles sorted by company name.
--hmtelang
select ContactName, ContactTitle
from Customers
order by CompanyName;
```

The results are displayed in a table with two columns: ContactName and ContactTitle. The data is sorted 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 Leblanc	Owner
Elizabeth Lincoln	Accounting Manager
Victoria Ashworth	Sales Representative
Patricio Simpson	Sales Agent
Francisco Chang	Marketing Manager
Yang Wang	Owner
Oliver Morgan	Sales Representative

The status bar at the bottom indicates: Query executed successfully. | ist-cs-dw1.ad.syr.edu (12.0... | AD/hmtelang (62) | Northwind | 00:00:00 | 91 rows

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

```
--2. Factoring in discounts, what is total amount of product sold?
--hmtelang
select sum(UnitPrice * Quantity) - sum(Quantity * Discount)
from [Order Details]
```

100 %

	(No column name)
1	1351136.62997549

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

```
--3. Provide a list of product category names with counts of products in each category.
--hmtelang
select c.CategoryName, count(c.CategoryName)
from Categories as c
inner join Products as p
on c.CategoryID = p.CategoryID
group by c.CategoryName
```

100 %

	CategoryName	(No column name)
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

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

```
--4. Select a specific customer and display that customer's orders with total amount of product sold for each order.
--hmtelang
SELECT * FROM Customers
select * from Orders
select * from [Order Details]

select o.OrderID, od.Quantity
from Orders as o
inner join [Order Details] as od
on o.OrderID = od.OrderID
where o.CustomerID = 'ANTON'
```

	OrderID	Quantity
1	10365	24
2	10507	15
3	10507	15
4	10535	50
5	10535	10
6	10535	5
7	10535	15
8	10573	18
9	10573	40
10	10573	25
11	10677	30
12	10677	8
13	10682	30
14	10682	4
15	10682	20

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

```
--5. Select a specific employee and each order, how it was shipped (shipvia) company who shipped it, and the total number of days elapsed
--from order date to shipped date.
--hmtelang
select * from Orders
SELECT * FROM Shippers

select o.OrderID, o.ShipVia, s.CompanyName, DATEDIFF(d, o.OrderDate, o.ShippedDate) as DaysElapsed
from Orders as o
inner join Shippers as s
on o.ShipVia = s.ShipperID
where o.EmployeeID = '6'
```

	OrderID	ShipVia	CompanyName	DaysElapsed
1	10249	1	Speedy Express	5
2	10264	3	Federal Shipping	30
3	10271	2	United Package	29
4	10272	2	United Package	4
5	10274	1	Speedy Express	10
6	10291	2	United Package	8
7	10296	1	Speedy Express	8
8	10298	2	United Package	6
9	10317	1	Speedy Express	10
10	10350	2	United Package	22
11	10355	1	Speedy Express	5
12	10356	2	United Package	9
13	10370	2	United Package	24
14	10390	1	Speedy Express	3