

## DQL – ADVANCED

-- Q1 What is the total revenues in 1997

```
select sum(UnitPrice*Quantity) "Total revenues in 1997" from [Order Details] od inner join Orders o on  
od.OrderID = o.OrderID where YEAR(o.OrderDate)=1997;
```

	Total revenues in 1997
1	351.80

--Q2 What is the total amount each customer has paid us so far

```
select c.CustomerID, sum(od.Quantity*od.UnitPrice) 'AMOUNT PAID' from Customers c inner join  
Orders o on c.CustomerID = o.CustomerID inner join [Order Details] od on o.OrderID=od.OrderID group  
by c.CustomerID;
```

	CustomerID	AMOUNT PAID
1	ANTON	2046.00
2	AROUT	351.80
3	BOLID	1819.40

--Q3 Find the 10 Top selling products

```
select TOP 10 p.ProductID, sum(od.Quantity) 'TotalQuantity' from Products p inner join [Order Details]  
od on p.ProductID=od.ProductID group by p.ProductID order by TotalQuantity desc;
```

	ProductID	TotalQuantity
1	5	75
2	6	15
3	4	15
4	3	15
5	2	12
6	1	10

--Q4 Display the total revenues per customer

```
select c.CustomerID, sum(od.Quantity*od.UnitPrice) 'TOTAL REVENUES PER CUSTOMER' from  
Customers c inner join Orders o on c.CustomerID = o.CustomerID inner join [Order Details] od on  
o.OrderID=od.OrderID group by c.CustomerID;
```

	CustomerID	TOTAL REVENUES PER CUSTOMER
1	ANTON	2046.00
2	AROUT	351.80
3	BOLID	1819.40

--Q5 Which UK Customers have paid us more than 1000 Dollars

Results

Messages

CustomerID

```
select OrderID, count(*) 'NumberofOrders' from [Order Details] group by OrderID order by
NumberofOrders Desc;
```

	OrderID	NumberOfOrders
1	1	3
2	2	3
3	4	3

```
select s.SupplierID, p.ProductName, s.CompanyName from Suppliers s inner join Products p on
s.SupplierID = p.SupplierID where s.CompanyName in ('Exotic Liquids', 'Specialty Biscuits, Ltd.',
'Escargots Nouveaux') order by s.SupplierID;
```

	SupplierID	ProductName	CompanyName
1	1	Manjimup Dried Apples	Exotic Liquids
2	1	Raclette Courdavault	Exotic Liquids
3	8	Escargots de Bourgogne	Specialty Biscuits, Ltd.

```
select ShipPostalCode, OrderID, OrderDate, RequiredDate, ShippedDate, ShipAddress From Orders
where ShipPostalCode LIKE '98124%';
```

ShipPostalCode	OrderID	OrderDate	RequiredDate	ShippedDate	ShipAddress
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--Q9 Display the ContactName, ContactTitle, CompanyName of customers that the has no 'Sales'; in their ContactTitle.

```
select ContactName, ContactTitle, CompanyName from Customers where ContactTitle not like '%sales%';
```

	ContactName	ContactTitle	CompanyName
1	Ana Trujillo	Owner	Ana Trujillo Emparedados y helados
2	Antonio Moreno	Owner	Antonio Moreno Taquería
3	Christina Berglund	Order Administrator	Berglunds snabbköp
4	Frédérique Citeaux	Marketing Manager	Blondesddsl père et fils
5	Martín Sommer	Owner	Bólido Comidas preparadas
6	Laurence Lebihan	Owner	Bon app'
7	Elizabeth Lincoln	Accounting Manager	Bottom-Dollar Markets

-- Q10 Display the LastName, FirstName, City of employees in cities other 'Seattle'

```
select LastName, FirstName, City from Employees where City <> 'Seattle';
```

	LastName	FirstName	City
1	Fuller	Andrew	Tacoma
2	Leverling	Janet	Kirkland
3	Peacock	Margaret	Redmond
4	Buchanan	Steven	London

-- Q11 Display the CompanyName, ContactTitle, City, Country of all customers in any city in Mexico or other cities in Spain other than Madrid

```
select CompanyName, ContactTitle, city, Country from Customers where city <> 'Madrid' or city in ('Mexico', 'Spain');
```

	CompanyName	ContactTitle	city	Country
1	Alfreds Futterkiste	Sales Representative	Berlin	Germany
2	Ana Trujillo Emparedados y helados	Owner	México D.F.	Mexico
3	Antonio Moreno Taquería	Owner	México D.F.	Mexico
4	Around the Horn	Sales Representative	London	UK
5	Berglunds snabbköp	Order Administrator	Luleå	Sweden
6	Blauer See Delikatessen	Sales Representative	Mannheim	Germany
7	Blondesddsl père et fils	Marketing Manager	Strasbourg	France
8	Bon app'	Owner	Marseille	France
9	Bottom-Dollar Markets	Accounting Manager	Tsawassen	Canada
10	Cactus Comidas para llevar	Sales Agent	Buenos Aires	Argentina

--Q12 Display the ContactName of all customers that do not have letter A as the second alphabet in their Contactname

```
select ContactName from Customers where ContactName not like '_a%';
```



Results Messages	
CustomerID	Sum of Freight

--Q16 Display the OrderID ContactName, UnitPrice, Quantity, Discount from the order details, orders and customers table with discount given on every purchase.

`select o.OrderID, c.ContactName, od.UnitPrice, od.Quantity, od.Discount from Customers c inner join Orders o on c.CustomerID = o.CustomerID inner join [Order Details] od on o.OrderID=od.OrderID where od.Discount <> 0;`

Results

Messages

	OrderID	ContactName	UnitPrice	Quantity	Discount
1	1	Martin Sommer	42.40	35	0.15
2	2	Antonio Moreno	16.80	15	0.15
3	4	Thomas Hardy	16.80	6	0.05

--Q17 Display the EmployeeID, the LastName and FirstName as employee, and the LastName and FirstName of who they report to as manager from the employees table sorted by Employee ID

`select E1.EmployeeID, concat(E1.LastName, E1.FirstName) 'Employee', concat(E2.LastName, E2.FirstName) 'Manager' from Employees E1 join Employees E2 on E2.EmployeeID=E1.ReportsTo order by e1.EmployeeID;`

Results Messages

	EmployeeID	Employee	Manager
1	2	DavolioNancy	FullerAndrew
2	3	LeverlingJanet	DavolioNancy
3	4	PeacockMargaret	DavolioNancy
4	5	BuchananSteven	LeverlingJanet

--Q18 Display the average, minimum and maximum UnitPrice of all products as AveragePrice, MinimumPrice and MaximumPrice respectively

`select avg(UnitPrice)'AveragePrice', min(UnitPrice)'MinimumPrice', max(UnitPrice)'MaximumPrice' from Products;`

Results

Messages

	AveragePrice	MinimumPrice	MaximumPrice
1	28.40	7.00	55.00

--Q19 Display the first 5 character of categoryName from the category tables and renamed as ShortInfo

`select SUBSTRING(CategoryName, 1, 5) 'ShortInfo' from Categories;`

