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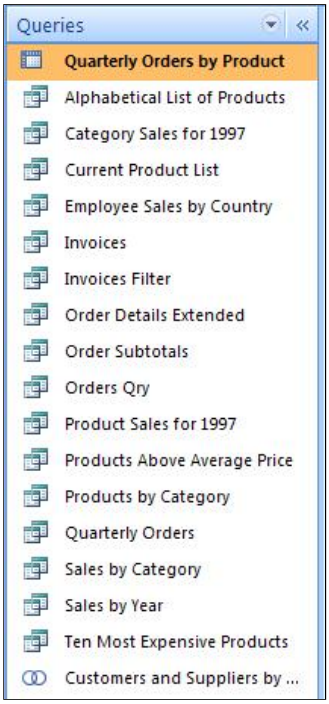
MySQL Northwind Queries - Part 1

The popular Microsoft Access Northwind database has been exported to MySQL here. This is part 1 of this tutorial series - we convert the Northwind Access queries to MySQL SQL queries. These queries are used for Access Northwind Traders application. Some of them are relatively complex aggregated queries.

Here is a screenshot of the queries from Access Northwind database.



1. Order Subtotals

For each order, calculate a subtotal for each Order (identified by OrderID). This is a simple query using GROUP BY to aggregate data for each order.

```
-- Get subtotal for each order.
select OrderID,
    format(sum(UnitPrice * Quantity * (1 - Discount)), 2) as Subtotal
from order_details
group by OrderID
order by OrderID;
```

Here is the query result. 830 records returned.

OrderID	Subtotal
10248	440.00
10249	1,863.40
10250	1,552.60
10251	654.06
10252	3,597.90
10253	1,444.80
10254	556.62
10255	2,490.50
10256	517.80
10257	1,119.90
10258	1,614.88
10259	100.80
10260	1,504.65

2. Sales by Year

This query shows how to get the year part from Shipped_Date column. A subtotal is calculated by a sub-query for each order. The sub-query forms a table and then joined with the Orders table.

```
select distinct date(a.ShippedDate) as ShippedDate,
    a.OrderID,
    b.Subtotal,
    year(a.ShippedDate) as Year
from Orders a
inner join
(
    -- Get subtotal for each order
    select distinct OrderID,
        format(sum(UnitPrice * Quantity * (1 - Discount)), 2) as Subtotal
    from order_details
    group by OrderID
) b on a.OrderID = b.OrderID
where a.ShippedDate is not null
    and a.ShippedDate between date('1996-12-24') and date('1997-09-30')
order by a.ShippedDate;
```

Here is the query result. 296 records returned.

ShippedDate	OrderID	Subtotal	Year
1996-12-24	10389	1,832.80	1996
1996-12-24	10371	72.96	1996
1996-12-25	10386	166.00	1996
1996-12-26	10390	2,090.88	1996
1996-12-27	10370	1,117.60	1996
1996-12-30	10366	136.00	1996
1996-12-31	10391	86.40	1996
1997-01-01	10392	1,440.00	1997
1997-01-02	10397	716.72	1997
1997-01-03	10394	442.00	1997

3. Employee Sales by Country

For each employee, get their sales amount, broken down by country name.

```
select distinct b.*, a.CategoryName
from Categories a
inner join Products b on a.CategoryID = b.CategoryID
where b.Discontinued = 'N'
order by b.ProductName;
```

Here is the query result. 296 records returned.

Country	LastName	FirstName	ShippedDate	OrderID	Sale_Amount
UK	Buchanan	Steven	1997-01-02	10397	716.72
UK	Buchanan	Steven	1997-03-06	10463	713.30
UK	Buchanan	Steven	1997-03-21	10474	1,249.10
UK	Buchanan	Steven	1997-03-25	10477	558.00
UK	Buchanan	Steven	1997-05-09	10529	946.00
UK	Buchanan	Steven	1997-05-30	10549	3,554.27
UK	Buchanan	Steven	1997-06-30	10575	2,147.40
UK	Buchanan	Steven	1997-07-11	10569	890.00
UK	Buchanan	Steven	1997-07-25	10607	6,475.40
UK	Buchanan	Steven	1997-08-29	10649	1,434.00

4. Alphabetical List of Products

This is a rather simple query to get an alphabetical list of products.

```
select distinct b.*, a.Category_Name
from Categories a
inner join Products b on a.Category_ID = b.Category_ID
where b.Discontinued = 'N'
order by b.Product_Name;
```

Here is the query result. 69 records returned.

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10
40	Boston Crab Meat	19	8	24 - 4 oz tins	18.4
60	Camembert Pierrot	28	4	15 - 300 g rounds	34
18	Carnarvon Tigers	7	8	16 kg pkg.	62.5
1	Chai	1	1	10 boxes x 20 bags	18
2	Chang	1	1	24 - 12 oz bottles	19
39	Chartreuse verte	18	1	750 cc per bottle	18
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22
48	Chocolade	22	3	10 pkgs.	12.75

5. Current Product List

This is another simple query. No aggregation is used for summarizing data.

```
select ProductID, ProductName
from products
where Discontinued = 'N'
order by ProductName;
```

Here is the query result. 69 records returned.

ProductID	ProductName
3	Aniseed Syrup
40	Boston Crab Meat
60	Camembert Pierrot
18	Carnarvon Tigers
1	Chai
2	Chang
39	Chartreuse verte
4	Chef Anton's Cajun Seasoning
48	Chocolade
38	Côte de Blaye

Other tutorials in this category

1. MySQL Northwind Queries - Part 2
2. MySQL Northwind Queries - Part 3
3. How to work with two unrelated values in MySQL

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