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Q1. Select the number of sales per category and country.

```
SELECT CategoryName, ShipCountry, COUNT(Orders.OrderID) as [No. of Sales]
FROM ((Orders inner join [Order Details] ON Orders.OrderID = [Order Details].OrderID)
inner join Products ON [Order Details].ProductID = Products.ProductID) inner join
Categories ON Products.CategoryID = Categories.CategoryID
GROUP BY ShipCountry,CategoryName;
```

Q2. Select the 3 top-selling categories overall (hint: use “select top 3” construction).

```
SELECT TOP 3 CategoryName, ShipCountry, COUNT(Orders.OrderID) as [No. of Sales]
FROM ((Orders inner join [Order Details] ON Orders.OrderID = [Order Details].OrderID)
inner join Products ON [Order Details].ProductID = Products.ProductID) inner join
Categories ON Products.CategoryID = Categories.CategoryID
GROUP BY ShipCountry,CategoryName;
```

Q3. List the total amount of sales in \$ by employee and year (discount in OrderDetails is at UnitPrice level). Which employees have an increase in sales over the three reported years?

```
a) SELECT Employees.EmployeeID, SUM(UnitPrice*Quantity*(1-Discount)) as [total
amount], YEAR(Orders.OrderDate) as [Year] FROM ([Order Details] inner join Orders ON
[Order Details].OrderID = Orders.OrderID) inner join
Employees ON Employees.EmployeeID = Orders.EmployeeID GROUP BY Employees.EmployeeID,
YEAR(Orders.OrderDate);
```

```
b) with new_table([total amount],EmployeeID,[Year]) as (SELECT
SUM(UnitPrice*Quantity*(1-Discount)) as [total amount] ,Employees.EmployeeID,
YEAR(Orders.OrderDate) as [Year] FROM ([Order Details] inner join Orders ON [Order
Details].OrderID = Orders.OrderID) inner join Employees ON Employees.EmployeeID =
Orders.EmployeeID GROUP BY Employees.EmployeeID, YEAR(Orders.OrderDate)) SELECT
t1.EmployeeID FROM new_table as t1,new_table as t2, new_table as t3 where
t1.EmployeeID = t2.EmployeeID and t2.EmployeeID = t3.EmployeeID and t1.[Year] <
t2.[Year] and t2.[Year] < t3.[Year] and t3.[total amount] > t2.[total amount] and
t2.[total amount] > t1.[total amount];
```

Q4. Get an individual sales report by month for employee 9 (Dodsworth) in 1997.

```
SELECT COUNT(Orders.OrderID) as [No. of Sales], MONTH(OrderDate) as Month
FROM Orders inner join Employees on Orders.EmployeeID = Employees.EmployeeID
WHERE YEAR(OrderDate) = 1997 AND Employees.EmployeeID = 9
GROUP BY MONTH(OrderDate);
```

Q5. Get a sales report by country and month.

```
SELECT COUNT(Orders.OrderID) as [No. of Sales], MONTH(OrderDate) as Month, ShipCountry
as Country FROM Orders GROUP BY ShipCountry, MONTH(OrderDate);
```