

SQL Queries

Question 1

1. Which products have been ordered and will have an inventory below their reorder level even after their current orders arrive?
2. Which orders can we not ship in the future because the orders contain discontinued Products?

```
select orders.OrderID
from orders, products, orderdetails
where orders.orderId = orderdetails.orderid
and orderdetails.ProductID = products.productID
and products.Discontinued = '1';
```

3. What are the sales by region (in dollar values) for 1997?

```
select orders.ShipRegion , sum(orderdetails.UnitPrice * orderdetails.Quantity -
orderdetails.Discount) as Sales
from orders, orderdetails
where orders.OrderID = orderdetails.OrderID
and orders.OrderDate between '1997-01-01' and '1998-01-01'
group by orders.ShipRegion;
```

4. Who are the 5 suppliers of products whose products we resell the most (top 5 by sales value)?

```
Select suppliers.ContactName, suppliers.Address, count(products.ProductID) as
num_of_products, sum(orderdetails.Quantity * orderdetails.UnitPrice -
orderdetails.Discount) as product_value
      from products, suppliers, orderdetails, orders
      where suppliers.SupplierID = products.SupplierID
      and orderdetails.OrderID = orders.OrderID
      and orderdetails.ProductID = products.ProductID
      group by products.ProductName,
suppliers.ContactName, orderdetails.ProductID
      having count(suppliers.SupplierID) > 0
      order by product_value desc
      limit 5;
```

5. What is the average number of days, for each employee, between the time they record an order and the time the order is shipped?