

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?

```
select ceil(avg(DATEDIFF(orders.shippedDate, orders.orderDate)))
from orderdetails, orders
where orders.orderId = orderdetails.OrderID;
```

