

## Subqueries and Indexes

### Assignments

Based on Northwind Schema design

1. Find the Companies that placed orders in 1997.  
→  
Select companyname from customers where customerid IN (select customerid from orders where orderdate LIKE '%1997')
2. Create a report that shows all products by name that are in the Seafood category.  
→  
Select productname from products where categoryid IN (Select categoryid from categories where categoryname='Seafood');
3. Create a report that shows all companies by name that sell products in CategoryID 8.  
→  
Select companyname from suppliers where supplierid IN (select supplierid from categories where categoryid=8);
4. Create a report that shows all companies by name that sell products in the Seafood category.  
→  
Select companyname from suppliers where supplierid IN (Select supplierid from products where categoryid=(Select categoryid from categories where categoryname='Seafood'));
5. Provide list of customers who ordered more than 20 items of product number 23 on a single order.  
→  
Select customerid from orders where orderid IN (Select orderid from order\_details where productid=23 and quantity>20);