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--Create executable queries. When you finish, raise your hand, I will take a look.
--STart with the command
USE PVF;

--to check table structure and columns within a table
-- Select top 10  from tablename;

--Be clear from which table to select which column, whether you need to join tables.


--For Pine Valley furniture, use SQL to answer following questions
--1. list the number of customers living at each state.

SELECT CustomerState, count() NumInState
from Customer_T
GROUP BY CustomerState;


--2. List the salesperons whose names carry a letter L.

select  from SALESPERSON_T
WHERE SalespersonName LIKE '%l%';

--3. Display the ProductID and the total ordered quantity for each product
  --for all products ordered. List the most popular product first and
--the least product last.

SELECT p.ProductID, ProductDescription, SUM(orderedquantity) totquan
FROM Product_T p Inner Join OrderLine_T ol
ON p.ProductID=ol.ProductID
GROUP BY p.ProductID, ProductDescription
ORDER BY totquan DESC;

--4. How many work centers does Pine Valley have Where are they located

SELECT  FROM WorkCenter_T
SELECT WorkCenterLocation, COUNT() from WorkCenter_T
GROUP BY WorkCenterLocation;

--5. List the employees whose names carry a letter L.

select  from Employee_T
where EmployeeName Like '%l%';


--6. Display the productline ID and the average standard price
  --for all products in each product line
```

```
select  from Product_T
select ProductLineID, AVG(ProductStandardPrice) AVGPRICE from Product_T
Group by ProductLineID;

USE Northwind;

--list customers from Germany, their names and contact.

Select Customers.ContactName, Customers.Region, Customers.Phone
from Customers
where Region = 'Germany';

select CompanyName, ContactName from Customers
where Country = 'Germany';

--List customers with customerID initials  "A" or "W"
select companyName, contactname from Customers
where customerID like 'A%' or CustomerID like 'W%';

--list orders placed by customers from London. List CustomerName, ContactName, OrderId, OrderDate,
ProductID
select CompanyName, ContactName, o.OrderId, OrderDate, ProductID
from customers c, orders o, [order details] od
where c.customerid=o.customerid and o.orderid=od.orderid
and city = 'London'


--list orders placed by customers from London. List CustomerName, ContactName, OrderId, OrderDate,
ProductID
--create and use table nicknames



--list orders placed by customers from London and Portland. List CustomerName, ContactName,
OrderId, OrderDate, ProductID
--create and use table nicknames
select CompanyName, ContactName, o.OrderId, OrderDate, ProductID
from customers c, orders o, [order details] od
where c.customerid=o.customerid and o.orderid=od.orderid
and city in ('London', 'Portland')
order by city;

--list orders placed by customers from London. List CustomerName, ContactName, OrderId, OrderDate,
ProductID
--create and use table nicknames
```

```
--list orders placed by customers from London. List CustomerName, ContactName, OrderId, OrderDate,
ProductID, Purchase for each --product at each order
--to do so, you have to inner join an additional table, Products

select CompanyName, ContactName, o.OrderId, OrderDate, ProductID, (UnitPrice * quantity) ProdPurch
from customers c, orders o, [order details] od
where c.customerid=o.customerid and o.orderid=od.orderid
and city = 'London'

select CompanyName, ContactName, o.OrderId, OrderDate, sum(UnitPrice * quantity) ProdPurch
from customers c, orders o, [order details] od
where c.customerid=o.customerid and o.orderid=od.orderid
and city = 'London'
group by CompanyName, ContactName, o.OrderId, OrderDate;

--list customer purchases from different cities, grouped by city.

select city, sum(UnitPrice * quantity) cityPurch
from customers c, orders o, [order details] od
where c.customerid=o.customerid and o.orderid=od.orderid
group by city
order by cityPurch;

--List sales at Each country grouped by country

select country, sum(UnitPrice * quantity) regionsales
from customers c, orders o, [order details] od
where c.customerid=o.customerid and o.orderid=od.orderid
group by country
order by regionsales


select Categoryname, sum(UnitPrice * quantity) Regionalsales
from customers c, orders o, [order details] od, categories cat
where o.orderid=od.orderid and od.productid=p.productid
    and p.categoryid=cat and catergory name = 'beverages'
group by category name, productname
```