Queries for Business Data Analysis

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Selecting top customers
  Select top 10 * from Customers
Selecting orders between certain dates and time
select * from Orders where OrderDate between '1996-07-04 00:00:00.000' and '1996-08-01
00:00:00.000'
OR you can use other if you want just year
select * from Orders where year(OrderDate)=1997
If you want to know what were the sales in last month of all years of which you have data
select * from Orders where month(OrderDate)=12
If you want to know what were the sales in last month of a specific year
select * from Orders where year(OrderDate)=1997 and month(OrderDate)=12
If you want to know data of certain supplier with certain category
Select * from Products where SupplierID=5 and CategoryID=4
If you want to know data of certain supplier or certain category
Select * from Products where SupplierID=5 or CategoryID=4
If you want to know data of multiple categories
Select * from Products where CategoryID=5 or CategoryID=4
Select * from Products where CategoryID in (4,5,6,7,8)
How much revenue a customer has generated
Select CompanyName, sum(Freight) AS [Total Spending] from Customers cust join Orders ord
on cust.CustomerID=ord.CustomerID
Group by CompanyName
If you want to know how much customers have spent by categories
Select CompanyName,CategoryName ,sum(Freight) AS [Total Spending]
from Customers cust join Orders ord
on cust.CustomerID=ord.CustomerID
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join [Order Details] ordd
on ord.OrderID=ordd.OrderID
join Products prod
on ordd.ProductID=prod.ProductID
join Categories cat
on prod.CategoryID=cat.CategoryID
group by CompanyName, CategoryName
order by CompanyName
If you want to know about maximum customer have spent
Select CompanyName, CategoryName , max(Freight) AS [Maximum Spending]
from Customers cust join Orders ord
on cust.CustomerID=ord.CustomerID
join [Order Details] ordd
on ord.OrderID=ordd.OrderID
join Products prod
on ordd.ProductID=prod.ProductID
join Categories cat
on prod.CategoryID=cat.CategoryID
group by CompanyName, CategoryName
If you want to know average how much customer has spent
Select CompanyName, CategoryName , avg(Freight) AS [Total Spending as average]
from Customers cust join Orders ord
on cust.CustomerID=ord.CustomerID
join [Order Details] ordd
on ord.OrderID=ordd.OrderID
join Products prod
on ordd.ProductID=prod.ProductID
join Categories cat
on prod.CategoryID=cat.CategoryID
group by CompanyName, CategoryName
If you want to know abou customer whose sum spent is greater than 500
Select CompanyName,CategoryName ,sum(Freight) AS [Total Spending SUM]
from Customers cust join Orders ord
on cust.CustomerID=ord.CustomerID
join [Order Details] ordd
on ord.OrderID=ordd.OrderID
join Products prod
on ordd.ProductID=prod.ProductID
join Categories cat
on prod.CategoryID=cat.CategoryID
group by CompanyName, CategoryName
having sum(Freight)>500
order by CompanyName
Order by
SELECT ROW NUMBER() OVER(ORDER BY Categories.CategoryID) AS [row num],
SUBSTRING (CategoryName, 1,2) AS [2LETTERS], CategoryName, [Description], ProductName,
GETDATE() AS [TODAY DATE]
FROM Categories JOIN Products
ON Categories.CategoryID=Products.CategoryID
ORDER By CategoryName, ProductName
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```
SELECT ROW NUMBER() OVER(PARTITION BY Categories.categoryID ORDER BY Products.Productid)
AS [row num],
SUBSTRING (CategoryName,1,2) AS [2LETTERS], CategoryName, [Description], ProductName,
GETDATE() AS [TODAY DATE]
FROM Categories JOIN Products
ON Categories.CategoryID=Products.CategoryID
ORDER By Categories.CategoryName
Selecting one category of in text formate
SELECT ROW NUMBER() OVER(PARTITION BY Categories.categoryID ORDER BY Products.Productid)
AS [row num],
SUBSTRING (CategoryName, 1,2) AS [2LETTERS], CategoryName, [Description], ProductName,
GETDATE() AS [TODAY DATE]
FROM Categories JOIN Products
ON Categories.CategoryID=Products.CategoryID
WHERE CategoryName='Beverages'
ORDER By Categories.CategoryName
Applying Char Index
SELECT ROW_NUMBER() OVER(PARTITION BY Categories.categoryID ORDER BY Products.Productid)
AS [row num],
UPPER( SUBSTRING(CategoryName,1,2) ) AS [2LETTERS], CategoryName AS [Category],
CHARINDEX(',',[Description],1),
[Description], ProductName
FROM Categories JOIN Products
ON Categories.CategoryID=Products.CategoryID
WHERE CategoryName= 'Beverages'
ORDER By Categories.CategoryName
Picking up some text from certain column and making another column
ROW_NUMBER() OVER(PARTITION BY Categories.categoryID ORDER BY Products.Productid) AS [row
UPPER( SUBSTRING(CategoryName,1,2) ) AS [2LETTERS], CategoryName AS [Category],
SUBSTRING([description],1, CHARINDEX(',',[Description],1) -1) AS [ShortDesc],
[Description], ProductName
FROM Categories JOIN Products
ON Categories.CategoryID=Products.CategoryID
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WHERE CategoryName='Beverages'
ORDER By Categories.CategoryName
Adding text in existing column
SELECT
ROW_NUMBER() OVER(PARTITION BY Categories.categoryID ORDER BY Products.Productid) AS [row
UPPER( SUBSTRING(CategoryName,1,2) ) AS [2LETTERS],
'Today ' + CategoryName AS [Category],
SUBSTRING([description],1, CHARINDEX(',',[Description],1) -1) AS [ShortDesc],
[Description], ProductName
FROM Categories JOIN Products
ON Categories.CategoryID=Products.CategoryID
WHERE CategoryName= 'Beverages'
ORDER By Categories CategoryName
Getting details of order
Select * from Customers where CustomerID='CHOPS'
Select * from Orders Where OrderID=10254
Select * from [Order Details] Where OrderID=10254
Select * from Products Where ProductID=24
Getting company name and order ID
Select OrderID, Companyname
from Orders join customers
ON Orders.CustomerID=Customers.CustomerID
Where OrderID=10254
Getting Orderid, company name, order date, freight and phone number
Select OrderID, Companyname, Customers.customerid, OrderDate, Freight, Phone
from Orders join customers
ON Orders.CustomerID=Customers.CustomerID
Where OrderID=10254
```

Renamming tables or fields temporarily and extracting order information

```
Select ord.orderid,Companyname, ordd.ProductID,Freight,Phone, Cust.CustomerID
From Orders AS ord join Customers AS Cust
ON ord.customerID=Cust.CustomerID
JOIN [Order Details] ordd
ON ord.orderID=ordd.orderID
join products as prod
ON ordd.ProductID=prod.ProductID
where ord.OrderID=10254
```

If you want to find customers buy products from certain categories every time.

```
Select Companyname, CategoryName
From Orders AS ord join Customers AS Cust
ON ord.customerID=Cust.CustomerID
JOIN [Order Details] ordd
ON ord.orderID=ordd.orderID
join products as prod
ON ordd.ProductID=prod.ProductID
Join Categories as cat
ON prod.CategoryID=cat.CategoryID
where ord.OrderID=10254
```

If you want to find customers buy products from various categories and removing duplicates from every category

```
Select DISTINCT Companyname, cat.CategoryName
From Orders AS ord join Customers AS Cust
ON ord.customerID=Cust.CustomerID
JOIN [Order Details] ordd
ON ord.orderID=ordd.orderID
join products as prod
ON ordd.ProductID=prod.ProductID
Join Categories as cat
ON prod.CategoryID=cat.CategoryID
where ord.OrderID=10248
```