Inner Join:

select companyname, orderdate, shipcountry from orders

inner join customers on customers.customerid = orders.customerid;

select firstname, lastname, orderdate from employees

inner join orders on employees.employeeid = orders.employeeid;

select companyname, unitprice, unitsinstock from products

inner join suppliers on suppliers.supplierid = products.supplierid;

select companyname, orderdate, productid, unitprice, quantity from customers

inner join orders on orders.customerid = customers.customerid

inner join order\_details on order\_details.orderid = orders.orderid;

select companyname, orderdate, order\_details.productid, order\_details.unitprice,

quantity,productname from customers

inner join orders on orders.customerid = customers.customerid

inner join order\_details on order\_details.orderid = orders.orderid

inner join products on products.productid = order\_details.productid;

select companyname, orderdate, order\_details.productid, order\_details.unitprice,

quantity,productname, categoryname from customers

inner join orders on orders.customerid = customers.customerid

inner join order\_details on order\_details.orderid = orders.orderid

inner join products on products.productid = order\_details.productid

inner join categories on categories.categoryid = products.categoryid;

select companyname, orderdate, order\_details.productid, order\_details.unitprice,

quantity,productname, categoryname from customers

inner join orders on orders.customerid = customers.customerid

inner join order\_details on order\_details.orderid = orders.orderid

inner join products on products.productid = order\_details.productid

inner join categories on categories.categoryid = products.categoryid

where categoryname = 'Seafood' and (order\_details.unitprice \* quantity - discount ) >=500;

Left Join:

select companyname, orderid from customers

left join orders on orders.customerid = customers.customerid;

select products.productid, productname, orderid from products

left join order\_details on products.productid = order\_details.productid;

select products.productid, productname, orderid from products

left join order\_details on products.productid = order\_details.productid

where orderid is null;

Right Join:

select companyname, orderid from orders

right join customers on orders.customerid = customers.customerid;

select customers.customerid, companyname, customertypeid

from customercustomerdemo

right join customers on customers.customerid = customercustomerdemo.customerid;

Full Join:

select companyname, orderid from customers

full join orders on orders.customerid = customers.customerid;

select categories.categoryid, categoryname, productname, productid from products

full join categories on categories.categoryid = products.categoryid;

Self Join:

select c1.companyname as CustomerName1,

c2.companyname as CustomerName2, c1.city

from customers as c1

join customers as c2 on c1.city = c2.city

where c1.customerid <> c2.customerid

order by c1.city;

select c1.companyname as CustomerName1,

c2.companyname as CustomerName2, c1.city

from customers as c1

join customers as c2 on c1.city = c2.city

where c1.customerid <> c2.customerid

order by c1.city;

USING :

select \* from orders join order\_details using(orderid);

select \* from orders

join order\_details using(orderid)

join products using(productid);

NATURAL:

select \* from orders

natural join order\_details;

select \* from customers

natural join orders

natural join order\_details;

Misc:

select categoryname, count(\*) from products

inner join categories

using(categoryid)

group by categoryname

order by count(\*) desc;

select round(avg(quantity)),productname, products.productid from order\_details

inner join products using(productid)

group by products.productid

order by avg(quantity) desc;

select productname, round(sum(order\_details.unitprice\*quantity)) from products

inner join order\_details using(productid)

inner join orders using(orderid)

where orderdate between '1997-01-01' and '1997-12-31'

group by productname

order by sum(order\_details.unitprice\*quantity) desc;

select productname, sum(order\_details.unitprice\*quantity) as amount from products

inner join order\_details using(productid)

group by productname

having sum(order\_details.unitprice\* quantity) <2000

order by amount asc;

select companyname, sum(unitprice\*quantity) as amount from customers

inner join orders using(customerid)

inner join order\_details using(orderid)

group by companyname

having sum(unitprice\*quantity) > 5000

order by amount desc;

select companyname, sum(unitprice\*quantity) as amount from customers inner join

orders using(customerid)inner join order\_details using(orderid)

where orderdate between '1997-01-01' and '1997-06-30'

group by companyname

having sum(unitprice\*quantity) >5000

order by amount desc;

select companyname, categoryname, sum(order\_details.unitprice\*quantity) as amount

from customers natural join orders

natural join order\_details

inner join products using(productid)

inner join categories using(categoryid)

group by grouping sets ((companyname),(companyname, categoryname))

order by companyname, categoryname nulls first;

Union and Union All :

select companyname from customers

union

select companyname from suppliers;

select city from customers

union all

select city from suppliers;

select country from customers

union

select country from suppliers

order by country asc;

select country from customers

union all

select country from suppliers

order by country asc;

Intersect and Intersect All:

select country from customers

intersect

select country from suppliers

order by country asc;

Except:

select country from customers

except

select country from suppliers

order by country asc;

select count(\*) from

(select country from customers

except

select country from suppliers) as alone;

select count(\*) from

(select country from customers

except all

select country from suppliers) as alone;

select city from suppliers

except

select city from customers;