Combining Data Solutions

1. Get the names and phone numbers of all shippers, customers, and suppliers together.

=>

select c.companyname,c.phone, sh.companyname,sh.phone, su.companyname,su.phone from orders o

join order\_details od on od.orderid=o.orderid

join customers c on c.customerid=o.customerid

join shippers sh on sh.shipperid=o.shipvia

join products p on p.productid=od.productid

join suppliers su on su.supplierid=p.productid

1. Create a report showing employee orders. (columns: employee firstname, lastname and order id).

=>

select firstname, lastname, orderid from employees e, orders o

where e.employeeid = o.employeeid

1. Create a report to display category id, category name, productid, product name, unit price for all the products in Beverages & Confections category.

=>

select c.categoryid, c.categoryname, p.productid, p.productname, p.unitprice from categories c

join products p

on c.categoryid=p.categoryid and c.categoryname in ('Beverages','Confections');

1. Display product names and corresponding Customer details for all the products in seafood category.

=>

select c.\*,p.\* from orders o

join order\_details od on od.orderid=o.orderid

join customers c on c.customerid=o.customerid

join products p on p.productid=od.productid

join categories ca on ca.categoryid=p.categoryid

where ca.categoryname='Seafood';

1. Display all the supplier details along with Products they supply (Using basic Inner join condition and Natural join syntax).

=>

Inner Join

select s.\*,p.\* from products p inner join suppliers s on s.supplierid=p.supplierid;

Natural Join

select \* from products natural join suppliers

1. Create a report to display all the Supplier details along with corresponding product details. Report should include all Supplier details whether corresponding product exist or not.

=>

select \* from suppliers s

left outer join products p

on s.supplierid = p.supplierid

1. Create a report to display Category name, product name, unit price, units in stock. Report should contain all the category names whether corresponding product exists or not. Also, report should contain all the product details whether they belong to any category or not.

=>

select categoryname, productname, unitprice, unitsinstock from categories c

full outer join products p

on c.categoryid = p.categoryid

1. Display Employee first name, last name, title along with corresponding Manager details.

Note: ReportsTo column in Employee table references EmployeeId column in the same table.

=>

select e.firstname, e.lastname, e.job\_id, (s.firstname || ' ' || s.lastname) as "manager details" from employee e join employee s on e.manager\_id = s.employeeid;

1. Display details of all the Suppliers whose country is same as Country of ‘Robb Merchant’

=>

select s.\* from suppliers s join suppliers d

on s.country = d.country and d.contactname = 'Robb Merchant';