Database Name: Northwind

1. Write a query to display the Customer details and order details of the customers who have ordered between '1996-07-01' and '1997-07-01'.

SELECT \*

FROM NORTHWIND.ORDERS A INNER JOIN NORTHWIND.CUSTOMERS B ON A.CUSTOMERID=B.CUSTOMERID

WHERE A.ORDERDATE BETWEEN '1996-07-01' AND '1997-07-01';

1. Display the EmployeeID, First name, last name, territory description and region description of the employees who are working in ‘Eastern’ region under ‘Cambridge’ territory.

select

e.EmployeeID,e.FirstName,e.LastName,t.TerritoryDescription

,r.RegionDescription

from

northwind.Employees e left join

northwind.EmployeeTerritories et

on e.employeeid =et.employeeid left join

northwind.territories t

on et.territoryid=t.TerritoryID

left join northwind.region r on

r.RegionID=t.RegionID

where t.TerritoryDescription='Cambridge' and

r.RegionDescription='Eastern';

1. Display the CustomerID, contactname, orderid, productname and ShipperName in the resultset. Retrieve the orderdetails placed by the customer with the product name under the category ‘Daily Products’ and the order should be shipped via ‘Speedy Express’.

select C.CUSTOMERID,C.CONTACTNAME,O.ORDERID,P.PRODUCTID,O.SHIPname

from NORTHWIND.ORDERS O INNER JOIN NORTHWIND.CUSTOMERS C

ON O.CUSTOMERID=C.CUSTOMERID

INNER JOIN NORTHWIND.ORDER\_DETAILS OD

ON O.ORDERID=OD.ORDERID

INNER JOIN NORTHWIND.PRODUCTS P

ON OD.PRODUCTID=P.PRODUCTID

4. Display the orderid, ProductName, Unitprice, Quantity and New\_Discount based on the below condition.

a. If the discount is 0 then calculate the New\_Discount as 2% of the Unit price.

b. If the discount > 0.1 then calculate the New\_Discount as 3% of the Unit price.

c. If the discount < 0.1 then calculate the New\_Discount as 4% of the Unit price.

d. Else calculate the New\_Discount as 6% of the Unit price.

select od.orderid,p.productname,od.unitprice,

od.quantity,od.discount,

case when od.discount=0 then 0.02\*od.unitprice

when od.discount>0.1 then 0.03\*od.unitprice

when od.discount<0.1 then 0.04\*od.unitprice

else 0.06\*od.unitprice end as New\_Discount

from northwind.order\_details od

inner join northwind.products p

on od.productid=p.productid;

5. Use the above result set and calculate the cost of each product and name the column as ‘Cost’. (Use the columns Unitprice, Quantity, New\_Discount)

select od.unitprice,

od.quantity,

case when od.discount=0 then (od.unitprice\*od.quantity-0.02\*od.unitprice)

when od.discount>0.1 then (od.unitprice\*od.quantity-0.03\*od.unitprice )

when od.discount<0.1 then (od.unitprice\*od.quantity-0.04\*od.unitprice )

else (od.unitprice\*od.quantity-0.06\*od.unitprice )end as cost from northwind.order\_details od

inner join northwind.products p

on od.productid=p.productid;

6. Display the CustomerID, Contact Name and Company Name of the customer, who have not placed any orders.

select c.customerid,c.contactname,c.companyname

from northwind.customers c left join northwind.orders o

on c.customerid=o.customerid where o.orderid is null

7. Display Productname, CategoryID, Unitprice, Unitsinstock, unitsonorder, reorderlevel, Supplier\_Existence, CompanyName as supplier, contactname as Supplier\_Name, Address as Supplier\_Address, Phone AS Supplier\_Phone. Display the Supplier\_Existence based on the conditions mentioned below.

a. If discontinued = 0 then display as ‘Supplier Exists’ else ‘Not Exists’

select p.productname,p.categoryid,p.unitprice,

p.unitsinstock,p.unitsonorder,p.reorderlevel,s.companyname

as supplier,

s.contactname as supplier\_name ,s.address as supplier\_address,s.phone as supplier\_phone

,case

when p.discontinued=0 then 'supplier exists'

else 'Not Exists' end as Supplier\_Existence

from northwind.products p left join

northwind.suppliers s

on p.supplierid=s.supplierid;

8. Use the above result and filter for the records ‘Supplier Exists’.

Display the unit of products that are ordered even though units are already in stock, that falls under the categories ‘confections’ and ‘Daily Products’.

select p.productname,p.unitprice

from northwind.products p inner join

northwind.categories c on c.categoryid=p.categoryid

where p.discontinued=0 and p.unitsinstock !=0 and p.unitsonorder!=0 and c.categoryname in('Dairy Products','Confections');

9. Display the Employee details and their manager details using the table Employees.

select \* from northwind.employees e left join

northwind.employees m

on e.reportsto=m.employeeid

10. Display the employees details who do not have managers.

select \* from northwind.employees e left join

northwind.employees m

on e.reportsto=m.employeeid

where e.reportsto is null;

11. Display the Customer details who are attended by the Sales Representatives and the orders were placed after 1996-10-03 and the shipping would be done before 1997-09-30.

select \*

from northwind.customers c left join

northwind.orders o

on c.customerid=o.customerid

where c.contacttitle = 'Sales Representative'

and o.orderdate>'1996-10-03'

and o.shippeddate<'1997-09-30';

12. Use the above result set and get the Shipper Details.

select sp.shipperid,sp.companyname,sp.phone

from northwind.customers c left join

northwind.orders o

on c.customerid=o.customerid left join northwind.shippers sp

on sp.shipperid=o.shipvia

where c.contacttitle = 'Sales Representative'

and o.orderdate>'1996-10-03'

and o.shippeddate<'1997-09-30';