18. Display every order along with the details of that order for order numbers 10270, 10272, 10279 (23)

--method 1  
SELECT ordernumber, productcode, quantityordered, priceeach, orderlinenumber  
FROM Orders NATURAL JOIN OrderDetails  
WHERE ordernumber = 10270 OR ordernumber = 10272 OR ordernumber = 10279;  
  
-- method 2:  
SELECT ordernumber, productcode, quantityordered, priceeach, orderlinenumber  
FROM Orders NATURAL JOIN OrderDetails  
WHERE ordernumber IN(10270, 10272,10279);

--method 2 is easier.

Graphical user interface, text

Description automatically generated

19. List of productlines, the productline’s text description and vendors that supply the products in that productline ordered by productLine and productVendor. (65)

SELECT DISTINCT productline, productvendor  
FROM ProductLines NATURAL JOIN Products;

Graphical user interface, text

Description automatically generated

Graphical user interface, text

Description automatically generated

Graphical user interface, text

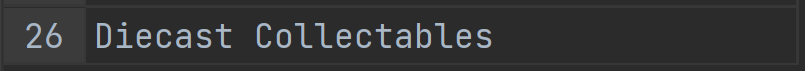
Description automatically generated

20. select customers that live in the same state as one of our offices ordered by customerName (26)

SELECT customername  
FROM Customers INNER JOIN Offices  
ON Customers.state = Offices.state;

Text

Description automatically generated



21. select customers that live in the same state as their employee representative works (26)

SELECT DISTINCT customername  
FROM Customers INNER JOIN (Employees NATURAL JOIN Offices AS EO)  
ON Customers.state = EO.state;

Graphical user interface, text

Description automatically generated

22. select customerName, orderDate, quantityOrdered, productLine, productName for all orders made and shipped in 2015 (444)

SELECT customername, orderdate, quantityordered, productline, productname  
FROM Orders NATURAL JOIN Customers NATURAL JOIN OrderDetails NATURAL JOIN Products  
WHERE orderdate BETWEEN '2015-01-01' AND '2015-12-31'  
AND shippeddate BETWEEN '2015-01-01' AND '2015-12-31';

A computer screen capture

Description automatically generated with medium confidence

23. List products that didn't sell (1)

Graphical user interface

Description automatically generated

24. List all customers and their sales rep even if they don’t have a sales rep order by customerName (122)

SELECT customername, lastname, firstname  
FROM Customers LEFT OUTER JOIN Employees  
ON Customers.salesrepemployeenumber = Employees.employeenumber;

Graphical user interface, text

Description automatically generated