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GSB 520

Week 2 SQL Practice

1. SQL query statement: use w3schools;

SELECT ProductName, Unit, Price

FROM products

WHERE Price >= 25

ORDER BY Price DESC;

Table

Description automatically generated

1. SELECT

o.OrderID,

c.CustomerName,

s.ShipperName,

e.FirstName,

e.LastName

FROM orders o

JOIN customers c ON o.CustomerID = c.CustomerID

JOIN employees e ON o.EmployeeID = e.EmployeeID

JOIN shippers s ON o.ShipperID = s.ShipperID

ORDER BY OrderID ASC;

A screenshot of a computer

Description automatically generated with medium confidence

1. SELECT

o.OrderID,

c.CustomerName,

s.ShipperName,

e.FirstName,

e.LastName

FROM orders o

JOIN customers c ON o.CustomerID = c.CustomerID

JOIN employees e ON o.EmployeeID = e.EmployeeID

JOIN shippers s ON o.ShipperID = s.ShipperID

WHERE

c.country = "USA"

AND

s.ShipperName = "Speedy Express"

ORDER BY OrderID ASC;

Graphical user interface, application

Description automatically generated

1. SELECT

c.CategoryName,

c.CategoryID,

p.Price,

COUNT(c.CategoryName),

AVG(Price)

FROM categories c JOIN products p

GROUP BY c.CategoryName, p.Price

ORDER BY COUNT(CategoryName) DESC;

Table

Description automatically generated

Part 2.

SELECT

c.CategoryName,

c.CategoryID,

p.Price,

COUNT(c.CategoryName),

AVG(Price)

FROM categories c JOIN products p

GROUP BY c.CategoryName, p.Price

ORDER BY (AVG(Price)) ASC;

Table

Description automatically generated

1. SELECT

c. CustomerName,

c. CustomerID,

o.OrderID,

o.CustomerID

FROM customers c

LEFT JOIN orders o

ON c.CustomerID = o.CustomerID

WHERE o.OrderID IS NULL;

Table

Description automatically generated

1. To find customers who ordered once:

SELECT

c.CustomerName,

c.CustomerID,

o.OrderID,

o.CustomerID,

od.OrderID,

od.Quantity

FROM customers c

JOIN orders o JOIN order\_details od

ON c.CustomerID = o.CustomerID

AND o.OrderID = od.OrderID;

SELECT

c.CustomerName,

c.CustomerID,

o.OrderID,

o.CustomerID,

od.OrderID,

od.Quantity,

p.ProductID,

p.Price \* od.Quantity AS total\_amount

FROM customers c

JOIN orders o JOIN order\_details od JOIN products p

ON c.CustomerID = o.CustomerID

AND o.OrderID = od.OrderID

GROUP BY c.CustomerName

ORDER BY total\_amount DESC;

Table

Description automatically generated

1. SELECT

p.ProductName

FROM

products p

JOIN

order\_details od

ON p.ProductID = od.ProductID

JOIN

orders o

ON od.OrderID = o.OrderID

JOIN (

SELECT

o.ShipperID

FROM

products p

JOIN

order\_details od

ON p.ProductID = od.ProductID

JOIN

orders o

ON od.OrderID = o.OrderID

GROUP BY

o.ShipperID

ORDER BY

COUNT(o.ShipperID) DESC

LIMIT 1

) AS mus # most\_used\_shipper

ON o.ShipperID = mus.ShipperID

GROUP BY p.ProductName

ORDER BY p.ProductName ASC;

Table

Description automatically generated

1. SELECT

o.OrderID

FROM

orders o

JOIN order\_details od

ON o.OrderID = od.OrderID

JOIN products p

ON od.ProductID = p.ProductID

WHERE

p.Price > (

SELECT

AVG(p.price)

FROM

products p

JOIN

order\_details od

ON p.ProductID = od.ProductID

JOIN orders o

ON od.OrderID = o.OrderID

)

GROUP BY

o.OrderID;

Table

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