

/*Logan Limbaugh MySQL Aggregate Queries*/

/*Query One*/

```
SELECT p.productName, COUNT(o.orderNumber) as 'Number of Orders'
FROM products p, orderdetails o
WHERE p.productCode = o.productCode
GROUP BY p.productName
ORDER BY 'Number of Orders' DESC;
```

/*Query Two*/

```
SELECT p.productName, SUM(o.quantityOrdered) as 'Quantity Ordered'
FROM products p, orderdetails o
WHERE p.productCode = o.productCode
GROUP BY p.productName
ORDER BY SUM(o.quantityOrdered) DESC;
```

/*Query Three*/

```
SELECT p.productName, SUM(o.priceEach * o.quantityOrdered) as 'Total Value'
FROM products p, orderdetails o
WHERE p.productCode = o.productCode
GROUP BY p.productName
ORDER BY SUM(o.priceEach * o.quantityOrdered) DESC
LIMIT 25;
```

/*Query Four*/

```
SELECT c.customerName, COUNT(o.orderNumber) as 'Orders Placed'
FROM customers c, orders o
WHERE c.customerNumber = o.customerNumber
GROUP BY c.customerName
ORDER BY COUNT(o.orderNumber) DESC
LIMIT 25;
```

/*Query Five*/

```
SELECT SUM(amount) AS 'Total Payments', YEAR(paymentDate) AS 'Year'
FROM payments
GROUP BY YEAR(paymentDate);
```

/*Query Six*/

```
SELECT SUM(amount) AS 'Total Payments', MONTH(paymentDate) AS 'Month'
FROM payments
WHERE YEAR(paymentDate) = 2004
GROUP BY MONTH(paymentDate)
ORDER BY MONTH(paymentDate) ASC;
```

/*Query Seven*/

```
SELECT SUM(amount) AS 'Total Payments', DAY(paymentDate) AS 'Day'
FROM payments
WHERE MONTH(paymentDate) = 12 AND YEAR(paymentDate) = 2004
GROUP BY DAY(paymentDate)
ORDER BY DAY(paymentDate) ASC;
```

/*Query Eight*/

```
SELECT c.customerName, SUM(p.amount) AS 'Total Payments'
FROM payments p, customers c
WHERE c.customerNumber = p.customerNumber
GROUP BY c.customerName
ORDER BY SUM(p.amount) DESC;
```

/*Query Nine*/

```
SELECT c.state, COUNT(*) AS 'Number of Customers in State'
FROM customers c
WHERE c.state = c.state
GROUP BY c.state
ORDER BY COUNT(*) DESC;
```

/*Query Ten*/

```
SELECT e.reportsTo AS 'reportsTo', COUNT(e.reportsTo) AS 'Number of Reports'
FROM employees e
GROUP BY e.reportsTo;
```

/*Query Eleven*/

```
SELECT COUNT(productLine) AS 'Number of Product Lines'
FROM productlines;
```

/*Query Twelve*/

```
SELECT p.productName, p.quantityInStock, p.buyPrice, p.quantityInStock * p.buyPrice
AS 'Dollar Value'
FROM products p
GROUP BY p.productName
ORDER BY p.quantityInStock * p.buyPrice DESC;
```