

Slide 1: Math Operations

Math Operations

Sadie St. Lawrence, MSA
Data Scientist, VSP

UC DAVIS
EXTENSION

Slide 2: Learning Objectives

Learning Objectives

Perform basic math calculations using your data

Discuss the order of operations

Describe analysis possibilities of using math operators and SQL together

Slide 3: Math Operators

Math Operators

Operator	Description
+	Addition
-	Subtraction
*	Multiplication
/	Division

Slide 4: Multiplication Example

Multiplication Example

Total units on order multiplied by the unit price to calculate the total order cost

```
SELECT
ProductID
,UnitsOnOrder
,UnitPrice
,UnitsOnOrder * UnitPrice AS Total_Order_Cost
FROM Products
```

Slide 5: Order of Operations

Order of Operations

Parentheses

Exponents

Multiplication

Division

Addition

Subtraction

“Please excuse my dear Aunt Sally”

Slide 6: Combining Math Operations

Combining Math Operations

Unit price, minus my discount, divided by the quantity

```
SELECT
ProductID
,Quantity
,UnitPrice
,Discount
,(UnitPrice - Discount)/Quantity AS
Total_Cost
FROM OrderDetails;
```