1. Use the saved sample e-commerce Sales data base.
2. Prepare a table of Sales and profit month wise in a working sheet

* **Creating Histogram**
* Click the data tab, and then click on data analysis under the analyze group
* Select histogram
* In the histogram dialog box, click the labels check box
* After that, select the range (“Sales Data!D1:D51291”) in the Input reference box and (“Working!L3:L7”) in the bin range reference box
* In the output section, select range “Working!N2” for the binning table, click the histogram check box, and then OK
* SUMIFS formula to calculate Sales and Profit month-wise.
* **For Sales:** Enter the formula in cell C4 in working sheet.
* Enter the equal sign and then enter the function name (SUMIFS) and open parenthesis.
* The first argument is Sum\_Range, select range ‘Sales Data’!H:H, and then insert a comma
* Pass the second argument month column “criteria Range1” as ‘Sales Data’!U:U, and then insert a Comma
* Now, pass the third argument “criteria1” as “$B$4,” and then insert the comma
* Pass the fourth argument as Data!F:F product category column, and then insert a comma
* Pass the fifth argument as “$T$3”
* Now copy and paste the formula in range C4:C15.

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| **Formula:** =SUMIFS('Sales Data'!$H$1:$H$51291,'Sales Data'!$U$1:$U$51291,'Working'!B4,'Sales Data'!$F$1:$F$51291,'My Working'!$T$3) |

* **For Profit:** Enter the formula in cell D4 in working sheet.
* Enter the equal sign and then enter the function name (SUMIFS) and open parenthesis.
* The first argument is Sum\_Range, select range ‘Sales Data’!K:K, and then insert a comma
* Pass the second argument month column “criteria Range1” as ‘Sales Data’!U:U, and then insert a Comma
* Now, pass the third argument “criteria1” as “$B$4,” and then insert the comma
* Pass the fourth argument as Data!F:F product category column, and then insert a comma
* Pass the fifth argument as “$T$3”
* Now copy and paste the formula in range D4:D15.

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| **Formula:** =SUMIFS('Sales Data'!$K$1:$K$51291,'Sales Data'!$U$1:$U$51291,'Working'!B4,'Sales Data'!$F$1:$F$51291,'My Working'!$T$3) |

* **For Quantity:** Enter the formula in cell E4 in working Sheet.
* Enter the equal sign and then enter the function name (SUMIFS) and open parenthesis.
* The first argument is Sum\_Range, select range ‘Sales Data’!I:I, and then insert a comma
* Pass the second argument month column “criteria Range1” as ‘Sales Data’!U:U, and then insert a Comma
* Now, pass the third argument “criteria1” as “$B$4,” and then insert the comma
* Pass the fourth argument as Data!F:F product category column, and then insert a comma
* Pass the fifth argument as “$T$3”
* Now copy and paste the formula in range E4:E15.

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| **Formula:** =SUMIFS('Sales Data'!$I$1:$I$51291,'Sales Data'!$U$1:$U$51291,Working!B4,'Sales Data'!$F$1:$F$51291,Working!$T$3) |

1. Prepare the sales table region-wise in working sheet.

* SUMIFS formula to calculate region-wise sales.
* Enter the equal sign and then enter the function name (SUMIFS) and open parenthesis.
* The first argument is Sum\_Range, select range ‘Sales Data’!H:H, and then insert a comma
* Pass the second argument Region column “criteria Range1” as ‘Sales Data’!T:T, and then insert a Comma
* Now, pass the third argument “criteria1” as “$G$4,” and then insert the comma
* Pass the fourth argument as Data!F:F product category column, and then insert a comma
* Pass the fifth argument as “$T$3”
* Now copy and paste the formula in range H4:H16.

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| **Formula:** =SUMIFS('Sales Data'!$H$1:$H$51291,'Sales Data'!$T$1:$T$51291,Working!G4,'Sales Data'!$F$1:$F$51291,Working!$T$3) |

1. Create Combo Box for product category.

* Insert combo box for the product category list in the dashboard sheet
* Pass the input range and cell for the combo box
* Pass input range “Working!S2:S5” and cell link “Working!T2” from the working sheet

1. Create user Check Box for product category.

* Write the equal sign and then the function name (OFFSET) and open parenthesis
* Pass the first argument as Cell “$S$1”
* In the second argument, select the cell “$T$2”
* In the third argument, type zero and close the parenthesis.

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| **Formula:** =OFFSET($S$1,$T$2,0) |

1. Create the Dashboard – See working Sheet