```
(*Note: This is not real data and used purely for practice*)
```

In[ ]:=
```
data = {
    {"A", "North", 250, 50},
    {"B", "South", 150, 30},
    {"C", "East", 200, 40},
    {"D", "West", 300, 60},
    {"E", "North", 270, 55},
    {"F", "East", 220, 45},
    {"G", "South", 180, 35},
    {"H", "West", 310, 65}
  };
keys = {"Product", "Region", "Sales", "Profit"};
```

In[ ]:=
```
tab = Tabular[data, keys]
```

Out[ ]=

	Product	Region	Sales	Profit
1	A	North	250	50
2	B	South	150	30
3	C	East	200	40
4	D	West	300	60
5	E	North	270	55
6	F	East	220	45
7	G	South	180	35

In[ ]:=
```
ColumnKeys[tab]
```

Out[ ]=

{Product, Region, Sales, Profit}

In[ ]:=
```
totalSales = Total[tab[All, "Sales"]]
totalProfit = Total[tab[All, "Profit"]]
```

Out[ ]=

1880

Out[ ]=

380

In[ ]:= **averageSalesByRegion =**
   AggregateRows[tab, "averageSales" → Function[Mean[#Sales]], "Region"]

Out[ ]=

Region	averageSales
North	260.00
South	165.00
East	210.00
West	305.00

In[ ]:= **highProfitProducts = Select[tab, #Profit > 50 &]**

Out[ ]=

	Product	Region	Sales	Profit
1	D	West	300	60
2	E	North	270	55
3	H	West	310	65

In[ ]:= **sales = Normal[tab[All, "Sales"]];**
   products = Normal[tab[All, "Product"]];

In[ ]:= **BarChart[tab → "Sales", ChartLabels → products, ChartStyle → LightBlue,**
   AxesLabel → {"Product", "Sales"}, PlotLabel → "Sales by Product"]

Out[ ]=

In[ ]:=

```
BarChart[
 tab → "Sales", ChartLabels → products, ChartStyle → (If[# < 200, Red, Green] & /@ sales),
 AxesLabel → {"Product", "Sales"}, PlotLabel → "Sales by Product"
 ]
```
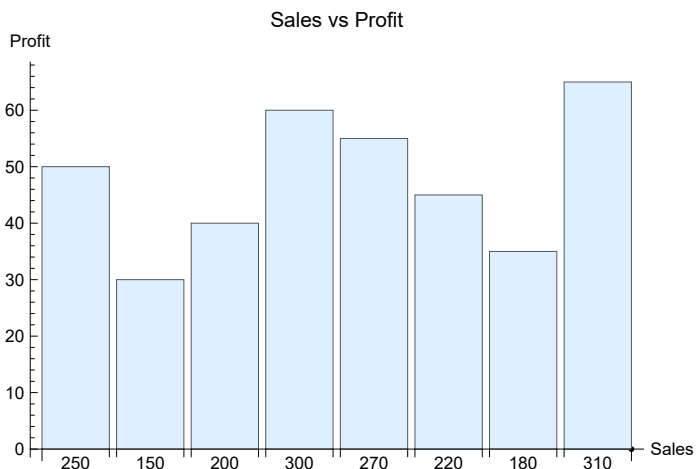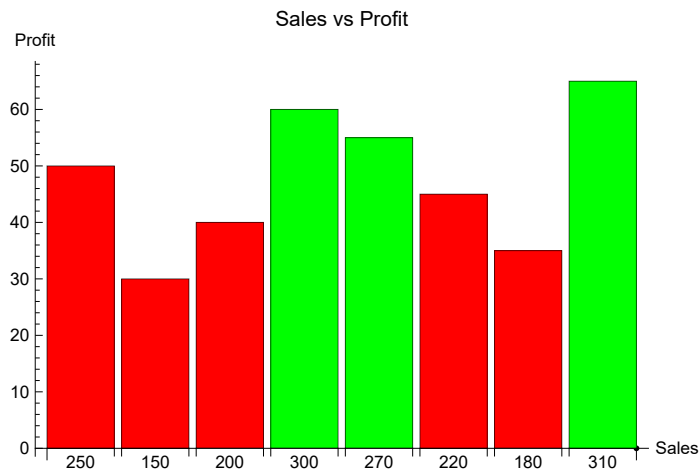
Out[ ]=

In[ ]:=

```
profit = Normal[tab[All, "Profit"]];
BarChart[tab → "Profit", ChartLabels → sales, ChartStyle → LightBlue,
 AxesLabel → {"Sales", "Profit"}, PlotLabel → "Sales vs Profit"]
```
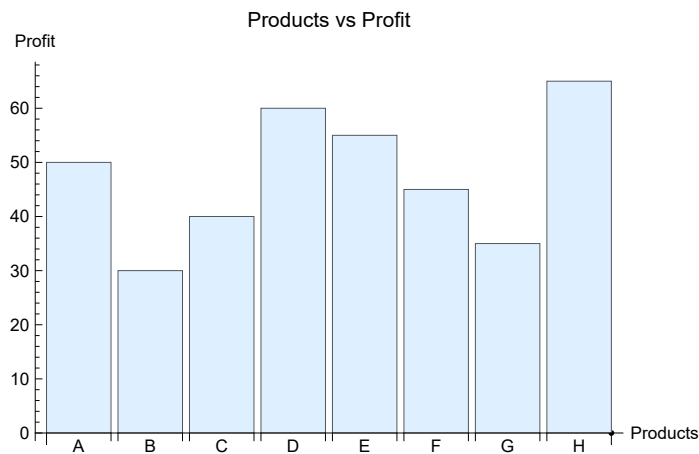
Out[ ]=

In[ ]:= `BarChart[tab → "Profit", ChartLabels → sales,`
`ChartStyle → (If[# > 50, Green, Red] & /@ profit),`
`AxesLabel → {"Sales", "Profit"}, PlotLabel → "Sales vs Profit"]`

Out[ ]=

In[ ]:= `BarChart[tab → "Profit", ChartLabels → products, ChartStyle → LightBlue,`
`AxesLabel → {"Products", "Profit"}, PlotLabel → "Products vs Profit"]`

Out[ ]=

In[ ]:= `BarChart[tab → "Profit", ChartLabels → products,`
`ChartStyle → (If[# > 50, Green, Red] & /@ profit),`
`AxesLabel → {"Products", "Profit"}, PlotLabel → "Product vs Profit"]`

Out[ ]=