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/\*Q1. Find the distribution of customers across the United States:\*/

Alabama         29         2.9175           Alaska         10         1.006           Arizona         26         2.6157           Arkansas         6         0.6036           Colifornia         97         9.7586           Colorado         33         3.3199           Connecticut         22         2.2133           Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Iddaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Massachusetts         14         1.4085 <th>state</th> <th>count(state) total_pct</th> <th>.5. /</th>	state	count(state) total_pct	.5. /
Alaska         10         1.006           Arizona         26         2.6157           Arkansas         6         0.6036           California         97         9.7586           Colorado         33         3.3199           Connecticut         22         2.2133           Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.1066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maire         1         0.1066           Marsachusetts         14         1.4085           Michigan         17         1.7103           Missouri         23         2.3139           Missouri         23         2.3139			2 9175
Arizona         26         2.6157           Arkansas         6         0.6036           California         97         9.7586           Colorado         33         3.3199           Connecticut         22         2.2133           Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.1066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maryland         14         1.4085           Maryland         14         1.4085           Michigan         17         1.7103           Missouri         23         2.3139           Missouri         23         2.3139           Morthaa         3         0.3018			
Arkansas         6         0.6036           California         97         9.7586           Colorado         33         3.3199           Connecticut         22         2.2133           Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048			
California         97         9.7586           Colorado         33         3.3199           Connecticut         22         2.2133           Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           lowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048           Louislana         20         2.0121           Maire         1         0.1006           Marsachusetts         14         1.4085           Michigan         17         1.7103           Missouri         23         2.3139           Missouri         23         2.3139           Misouri         23         2.3139           Mortana         3         0.3018           Nebraska         7         0.7042		•	
Colorado         33         3.3199           Connecticut         22         2.2133           Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maire         1         0.1006           Maryland         14         1.4085           Miscolusaria         17         1.7103           Minnesota         17         1.7103           Minnesota         17         1.7103           Minnesota         17         1.7103           Minnesota         17         1.7103           Morthana         3         0.318           Nebraska         7         0.7042			
Connecticut         22         2.2133           Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.1066           Kansas         13         1.3078           Kentucky         8         0.8048           Louislana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Mississippi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           New Jersey         9         0.9054 <td></td> <td>•</td> <td></td>		•	
Delaware         6         0.6036           District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048           Maine         1         0.1066           Maine         1         0.1006           Maryland         14         1.4085           Maine         1         0.1006           Maryland         14         1.4085           Miscousetts         14         1.4085           Miscousetts         14         1.4085           Missousetts         14         1.4085			
District of Columbia         35         3.5211           Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Michigan         17         1.7103           Minnesotaschusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Minnesota         17         1.7103           Minnesota         17         1.7103           Mississisppi         2         0.2012           Missouri         23         2.3139           Mortana         3         0.3018           Nebraska         7         0.7042			
Florida         86         8.6519           Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.1066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           New Jersey         9         0.9054           New Hampshire         3         0.3018           New Jersey         9         0.9054           New York         69         6.9416			
Georgia         18         1.8109           Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Mississippi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           Newada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New Mexico         5         0.503           New Mork         69         6.9416			
Hawaii         6         0.6036           Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.1066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           Nevada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416			
Idaho         7         0.7042           Illinois         25         2.5151           Indiana         21         2.1127           Iowa         11         1.066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           Newada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121 </td <td></td> <td></td> <td></td>			
Illinois 25 2.5151 Indiana 21 2.1127 Iowa 11 1.1066 Kansas 13 1.3078 Kentucky 8 0.8048 Louisiana 20 2.0121 Maine 1 0.1006 Maryland 14 1.4085 Massachusetts 14 1.4085 Michigan 17 1.7103 Minnesota 17 1.7103 Mississippi 2 0.2012 Missouri 23 2.3139 Montana 3 0.3018 Nebraska 7 0.7042 New Hampshire 3 0.3018 New Jersey 9 0.9054 New Mexico 5 0.503 New York 69 6.9416 North Carolina 20 2.0121 North Dakota 2 0.2012 North Carolina 20 2.0121 North Dakota 2 0.2012 North Carolina 20 2.0121 Nort			
Indiana         21         2.1127           Iowa         11         1.1066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Mississippi         2         0.2012           Mississuri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           Newada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042		·	
Iowa         11         1.1066           Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           New Hampshire         3         0.3018           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Wexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oregon         7         0.7042           Pennsylvania         25         2.5151<			
Kansas         13         1.3078           Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           Nevada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151 <td></td> <td></td> <td></td>			
Kentucky         8         0.8048           Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Mischigan         17         1.7103           Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           New Jacka         7         0.7042           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9			
Louisiana         20         2.0121           Maine         1         0.1006           Maryland         14         1.4085           Massachusetts         14         1.4085           Michigan         17         1.7103           Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           Nevada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Jersey         9         0.9054           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Texas         97         9.7			
Maine       1       0.1006         Maryland       14       1.4085         Massachusetts       14       1.4085         Michigan       17       1.7103         Minnesota       17       1.7103         Mississispipi       2       0.2012         Missouri       23       2.3139         Montana       3       0.3018         Nebraska       7       0.7042         Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Jersey       9       0.9054         New Wexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Texas       97       9.7586         Utah       10       1.006         Vermont			
Maryland       14       1.4085         Massachusetts       14       1.4085         Michigan       17       1.7103         Minnesota       17       1.7103         Mississisppi       2       0.2012         Missouri       23       2.3139         Montana       3       0.3018         Nebraska       7       0.7042         Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia <td></td> <td></td> <td></td>			
Massachusetts       14       1.4085         Michigan       17       1.7103         Minnesota       17       1.7103         Mississippi       2       0.2012         Missouri       23       2.3139         Montana       3       0.3018         Nebraska       7       0.7042         Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington <td></td> <td></td> <td></td>			
Michigan       17       1.7103         Minnesota       17       1.7103         Mississisppi       2       0.2012         Missouri       23       2.3139         Montana       3       0.3018         Nebraska       7       0.7042         Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia </td <td>•</td> <td></td> <td></td>	•		
Minnesota         17         1.7103           Mississispipi         2         0.2012           Missouri         23         2.3139           Montana         3         0.3018           Nebraska         7         0.7042           Nevada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006<			
Mississippi       2       0.2012         Missouri       23       2.3139         Montana       3       0.3018         Nebraska       7       0.7042         Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048			
Missouri       23       2.3139         Montana       3       0.3018         Nebraska       7       0.7042         Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048			
Montana       3       0.3018         Nebraska       7       0.7042         Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048		23	
Nebraska         7         0.7042           Nevada         17         1.7103           New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Tennessee         23         2.3139           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048			
Nevada       17       1.7103         New Hampshire       3       0.3018         New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048	Nebraska	7	
New Hampshire         3         0.3018           New Jersey         9         0.9054           New Mexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Tennessee         23         2.3139           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Nevada	17	
New Jersey       9       0.9054         New Mexico       5       0.503         New York       69       6.9416         North Carolina       20       2.0121         North Dakota       2       0.2012         Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048	New Hampshire		0.3018
New Mexico         5         0.503           New York         69         6.9416           North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Tennessee         23         2.3139           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	•	9	
North Carolina         20         2.0121           North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Tennessee         23         2.3139           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048		5	0.503
North Dakota         2         0.2012           Ohio         33         3.3199           Oklahoma         16         1.6097           Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Tennessee         23         2.3139           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	New York	69	6.9416
Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048	North Carolina	20	
Ohio       33       3.3199         Oklahoma       16       1.6097         Oregon       7       0.7042         Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048	North Dakota	2	0.2012
Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Tennessee         23         2.3139           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Ohio	33	3.3199
Oregon         7         0.7042           Pennsylvania         25         2.5151           South Carolina         9         0.9054           Tennessee         23         2.3139           Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Oklahoma	16	1.6097
Pennsylvania       25       2.5151         South Carolina       9       0.9054         Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048	Oregon	7	
Tennessee       23       2.3139         Texas       97       9.7586         Utah       10       1.006         Vermont       1       0.1006         Virginia       24       2.4145         Washington       28       2.8169         West Virginia       10       1.006         Wisconsin       8       0.8048		25	2.5151
Texas         97         9.7586           Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	South Carolina	9	0.9054
Utah         10         1.006           Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Tennessee	23	2.3139
Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Texas	97	9.7586
Vermont         1         0.1006           Virginia         24         2.4145           Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Utah	10	1.006
Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Vermont	1	0.1006
Washington         28         2.8169           West Virginia         10         1.006           Wisconsin         8         0.8048	Virginia	24	
West Virginia         10         1.006           Wisconsin         8         0.8048	Washington	28	
Wisconsin 8 0.8048	West Virginia	10	1.006
Wyoming 1 0.1006		8	0.8048
	Wyoming	1	0.1006

quarter_number		avg(rating_no) over (par
	1	3.5548
	2	3.355
	3	2.9563
	4	2.397
Year Average		3.065775

Q3 /\*Q3. How does customer satisfaction change over time?\*/
(these are the pivot tables made from the 1000 line chart I pulled from SQL.)
Sum of Satisfaction Ratic Column Labels

	1 Very Bad	2 Bad	3 Okay		4 Good
	1	6.596	6.72	17.228	36.846
	2	8.697	7.511	13.886	15.66
	3	9.594	14.872	12.4	10.704
	4	21.289	18.502	7.92	1.86
Grand Total		46.176	47.605	51.434	65.07
			·		

Sum of sat\_ct Column Labels **Row Labels** 1 Very Bad 2 Bad 3 Okay 4 Good 5 Very Good **Grand Total** 2.396984925 3.55483871 3.354961832 2.956331878

vehicle_maker	maker_ct	
Chevrolet		83
Ford		63
Toyota		52
Dodge		50
Pontiac		50

#### Q5 /\*Q5. What is the preferred vehicle make in each state?\*/

state_cust	state_rank	state	vehicle_maker
30	1	Alabama	Dodge
10	1	Alaska	Chevrolet
26	1	Arizona	Cadillac
26	1	Arizona	Pontiac
-	1		Audi
97	1		Chevrolet
	1		Dodge
			Ford
			Nissan
			Chevrolet
			Chevrolet
			Maserati
			Mercury
	1	Connecticut	Volvo
6	1	Delaware	Mitsubishi
35	1	District of Colu	m Chevrolet
86	1	Florida	Toyota
		C:-	Toyota
19	1	Georgia	Toyota
19 7	1 1	Idaho	Dodge
			•
7	1	Idaho	Dodge
7 25	1	Idaho Illinois	Dodge GMC
7 25 25	1 1 1	Idaho Illinois Illinois	Dodge GMC Chevrolet
7 25 25 25	1 1 1 1	Idaho Illinois Illinois Illinois	Dodge GMC Chevrolet Ford
7 25 25 25 25 23	1 1 1 1	Idaho Illinois Illinois Illinois Indiana	Dodge GMC Chevrolet Ford Mazda
7 25 25 25 25 23 20	1 1 1 1 1 1	Idaho Illinois Illinois Illinois Indiana Louisiana	Dodge GMC Chevrolet Ford Mazda BMW
7 25 25 25 25 23 20 20	1 1 1 1 1 1	Idaho Illinois Illinois Illinois Indiana Louisiana Louisiana	Dodge GMC Chevrolet Ford Mazda BMW Ford
7 25 25 25 25 23 20 20 20	1 1 1 1 1 1 1	Idaho Illinois Illinois Illinois Indiana Louisiana Louisiana Louisiana	Dodge GMC Chevrolet Ford Mazda BMW Ford Kia
	30 10 26 26 27 97 97 97 97 97 33 22 22 22 22 26 6 35 86	30 1 10 1 26 1 26 1 27 1 28 1 29 1 29 1 29 1 20 1 20 1 20 1 20 1 20 1 20 1 21 1 22 1 22	30         1         Alabama           10         1         Alaska           26         1         Arizona           26         1         Arizona           97         1         California           33         1         Colorado           22         1         Connecticut           22         1         Connecticut           22         1         Connecticut           22         1         Connecticut           22         1         Delaware           35         1         District of Colu           86         1         Florida

2	14	1	Massachusetts	Chevrolet
2	14	1	Massachusetts	Dodge
3	17	1	Michigan	Ford
3	17	1	Minnesota	GMC
4	23	1	Missouri	Chevrolet
3	17	1	Nevada	Pontiac
2	9	1	New Jersey	Hyundai
2	9	1	New Jersey	Mercedes-Benz
2	5	1	New Mexico	Dodge
5	69	1	New York	Toyota
5	69	1	New York	Pontiac
3	20	1	North Carolina	Volvo
6	33	1	Ohio	Chevrolet
2	16	1	Oklahoma	Ferrari
2	16	1	Oklahoma	Mazda
2	16	1	Oklahoma	Toyota
2	7	1	Oregon	Toyota
3	25	1	Pennsylvania	Toyota
3	23	1	Tennessee	Mazda
9	98	1	Texas	Chevrolet
5	24	1	Virginia	Ford
5	28	1	Washington	Chevrolet
2	10	1	West Virginia	Mercedes-Benz
		•	•	



#### /\*Q6. What is the trend of number of orders by quarters?\*/

quarter_number	count(order_id) over (paquarter_number			tota	l_order
	1	310		1	464
	2	262		2	400
	3	229		3	342
	4	199		4	306

total orders 1000 Total Vehicles 1512

Merged Tables

Q6

			%Multiple Cars
quarter	Orders	Vehicles	Bought
1	310	464	1.50
2	262	400	1.53
3	229	342	1.49
4	199	306	1.54

quarter_number	tot_orders	current_qtr	prev_qtr	pct_chg	
	1	1000	310 NULL	NULL	
	2	1000	262	310	-0.15
	3	1000	229	262	-0.13
	4	1000	199	229	-0.13

### Q7 /\*Q7. What is the quarter over quarter % change in revenue?\*/

quarter_number	to	t_price_in_Mill	prev_price_	in_Mill	chg_pct
	1	18.0325499	NULL		NULL
	2	13.12299576		18.0325499	-27
	3	8.88229884	1	3.12299576	-32
	4	8.57314928		8.88229884	-3

Total Yearly Revenue 48.61099378 chg over yr -1.103375237

#### /\*Q8. What is the trend of revenue and orders by quarters?\*/

Q8

quarter_number	qtr_orders	prev_orders	order_ch	g_pct o	qtr_revenue
	1	310 NULL	NULL		18032549.9
	2	262	310	-15	13122995.76
	3	229	262	-13	8882298.84
	4	199	229	-13	8573149.28

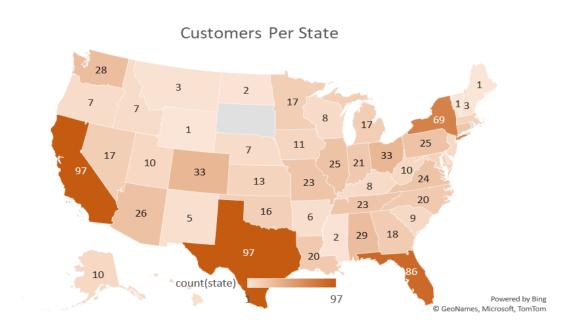
credit_card_type avg_disc	Column1
Diners Club International	0.584 Under 6% is low
Solo	0.585 Under 6% is low
Diners Club Enroute	0.599792 Under 6% is low
Visa	0.600833 Under 6% is low
JCB	0.607382 Between 6 & 6.2% is average
Bankcard	0.609545 Between 6 & 6.2% is average
Switch	0.610233 Between 6 & 6.2% is average
Diners Club Carte Blanch	0.61449 Between 6 & 6.2% is average
Diners Club US CA	0.614615 Between 6 & 6.2% is average
American Express	0.616327 Between 6 & 6.2% is average
Instapayment	0.620625 Above 6.2% is high
China Unionpay	0.622174 Above 6.2% is high
Visa electronic	0.623469 Above 6.2% is high
Maestro	0.624219 Above 6.2% is high
Mastercard	0.6295 Above 6.2% is high
Laser	0.643846 Above 6.2% is high

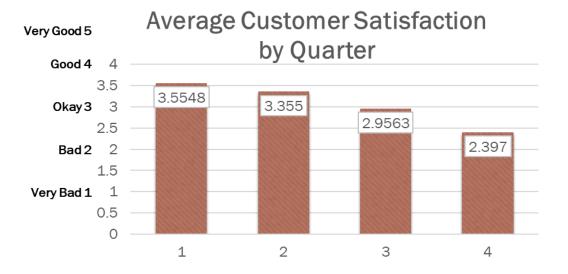
Q10 /\*Q10. What is the average time taken to ship the placed orders for each quarters?\*/

,		J
		Avg No of Days Until De
	1	57.2
	2	71.1
	3	117.8
	4	174.1
	Avg	105.0

Top 5 States for Sales



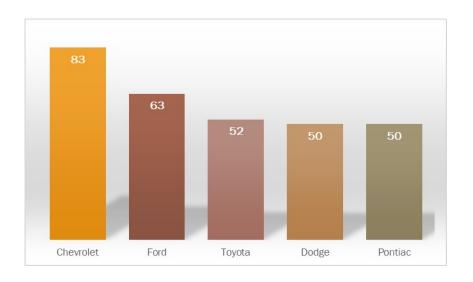


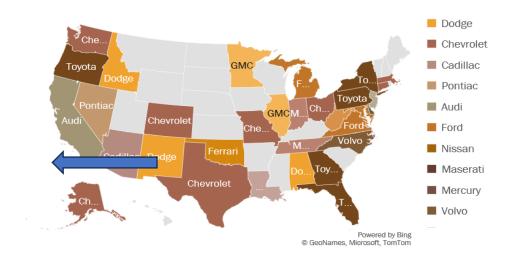


5 Very Good	<b>Grand Total</b>
38.316	105.706
24.9	70.654
6.384	53.954
1.76	51.331
71.36	281.645
0.4844	

<b>Grand Total</b>		
	175	
	182	
	202	
	215	
	226	
	1000	
	3.135	



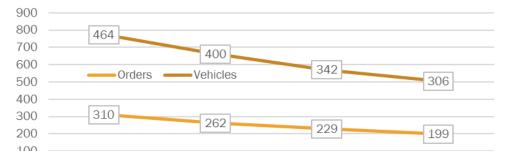




state	vehicle maker	Column1	Column2
Arkansas	Chevrolet	***	***
California	Chevrolet	***	***
Delaware	Chevrolet	***	***
Hawaii	Ford	***	***
Illinois	Chevrolet	***	***
lowa	Chevrolet	***	***
Louisiana	Ford	***	***
Massachusetts	Chevrolet	***	***
Minnesota	Dodge	***	***
Mississippi	Dodge	***	***
Montana	Chevrolet	***	***
Nebraska	Chevrolet	***	***

New York Pontiac *** ***  Utah Chevrolet ****  Alaska Chevrolet Chevrolet Colorado Chevrolet Chevrolet Connecticut Chevrolet Chevrolet District of Columbia Chevrolet Chevrolet Chevrolet Missouri Chevrolet Washington Chevrolet Chevrolet Wisconsin Chevrolet Chevrolet Chevrolet Wisconsin Chevrolet Chevrolet Chevrolet Chevrolet Chevrolet Wisconsin Chevrolet Chevrolet Chevrolet Chevrolet Misconsin Chevrolet Chevrolet Chevrolet Chevrolet Chevrolet Chevrolet Chevrolet Chevrolet Wisconsin Choevrolet Chevrolet	New Jersey	Dodge	***	***
UtahChevrolet******AlaskaChevroletChevroletColoradoChevroletChevroletConnecticutChevroletChevroletDistrict of ColumbiaChevroletChevroletMissouriChevroletChevroletOhioChevroletChevroletTennesseeChevroletChevroletTexasChevroletChevroletWashingtonChevroletChevroletWisconsinChevroletChevroletAlabamaDodgeDodgeIdahoDodgeDodgeNew MexicoDodgeDodgeSouth CarolinaDodgeDodgeMarylandFordFordMichiganFordFordNorth DakotaFordFordVirginiaFordFordArizonaPontiacPontiacKentuckyPontiacPontiacNevadaPontiacPontiacWest VirginiaPontiacPontiacFloridaToyotaToyotaIndianaToyotaToyotaNorth CarolinaToyotaToyotaOklahomaToyotaToyotaOregonToyotaToyota			***	***
Alaska Chevrolet Chevrolet Colorado Chevrolet Chevrolet Connecticut Chevrolet Chevrolet District of Columbia Chevrolet Chevrolet Missouri Chevrolet Chevrolet Ohio Chevrolet Chevrolet Tennessee Chevrolet Chevrolet Texas Chevrolet Chevrolet Washington Chevrolet Chevrolet Wisconsin Chevrolet Chevrolet Wisconsin Chevrolet Chevrolet Alabama Dodge Dodge Idaho Dodge Dodge Kansas Dodge Dodge New Mexico Dodge Dodge South Carolina Dodge Dodge Maryland Ford Ford Michigan Ford Ford North Dakota Ford Ford Arizona Pontiac Kentucky Pontiac Pontiac West Virginia Pontiac Pontiac West Virginia Pontiac Pontiac Florida Toyota Toyota North Carolina Toyota North Carolina Toyota Toyota Oklahoma Toyota Toyota Toyota Toyota Oregon Toyota Toyota Toyota Toyota Toyota Toyota			***	***
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Maryland Ford Ford  Michigan Ford Ford  North Dakota Ford Ford  Virginia Ford Ford  Arizona Pontiac Pontiac  Kentucky Pontiac Pontiac  Nevada Pontiac Pontiac  West Virginia Pontiac Pontiac  Florida Toyota Toyota  Indiana Toyota Toyota  Oklahoma Toyota Toyota  Oregon Toyota Toyota  Toyota Toyota		_		-
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NevadaPontiacPontiacWest VirginiaPontiacPontiacFloridaToyotaToyotaGeorgiaToyotaToyotaIndianaToyotaToyotaNorth CarolinaToyotaToyotaOklahomaToyotaToyotaOregonToyotaToyota	Kentucky	Pontiac		Pontiac
Florida Toyota Toyota Georgia Toyota Toyota Indiana Toyota Toyota North Carolina Toyota Toyota Oklahoma Toyota Toyota Oregon Toyota Toyota	-	Pontiac		Pontiac
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	Oregon	,		<i>,</i>
		Toyota		Toyota

# Orders by Quarter

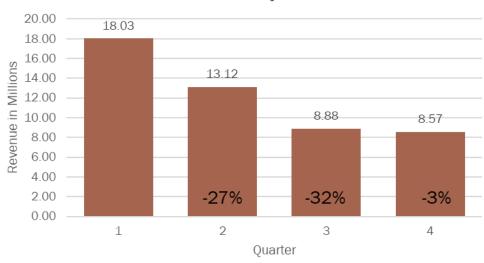




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## Revenue over Quarters



Rev in 100K	prev_rev	revenue_chg_pct	
180.325499	NULL	NULL	
131.2299576	18032549.9		-27
88.8229884	13122995.76		-32
85.7314928	8882298.84		-3

