

|                              | class = on<br>time      | class = late           | class = very<br>late   | class = can-<br>celled |
|------------------------------|-------------------------|------------------------|------------------------|------------------------|
| <b>day =<br/>weekday</b>     | <b>9/14 = 0.64</b>      | <b>1/2 = 0.5</b>       | <b>3/3 = 1</b>         | <b>0/1 = 0</b>         |
| day =<br>saturday            | 2/14 = 0.14             | 1/2 = 0.5              | 0/3 = 0                | 1/1 = 1                |
| day = sunday                 | 1/14 = 0.07             | 0/2 = 0                | 0/3 = 0                | 0/1 = 0                |
| day = holiday                | 2/14 = 0.14             | 0/2 = 0                | 0/3 = 0                | 0/1 = 0                |
| season =<br>spring           | 4/14 = 0.29             | 0/2 = 0                | 0/3 = 0                | 1/1 = 1                |
| season =<br>summer           | 6/14 = 0.43             | 0/2 = 0                | 0/3 = 0                | 0/1 = 0                |
| season =<br>autumn           | 2/14 = 0.14             | 0/2 = 0                | 1/3 = 0.33             | 0/1 = 0                |
| <b>season =<br/>winter</b>   | <b>2/14 = 0.14</b>      | <b>2/2 = 1</b>         | <b>2/3 = 0.67</b>      | <b>0/1 = 0</b>         |
| wind = none                  | 5/14 = 0.36             | 0/2 = 0                | 0/3 = 0                | 0/1 = 0                |
| <b>wind = high</b>           | <b>4/14 = 0.29</b>      | <b>1/2 = 0.5</b>       | <b>1/3 = 0.33</b>      | <b>1/1 = 1</b>         |
| wind =<br>normal             | 5/14 = 0.36             | 1/2 = 0.5              | 2/3 = 0.67             | 0/1 = 0                |
| rain = none                  | 5/14 = 0.36             | 1/2 = 0.5              | 1/3 = 0.33             | 0/1 = 0                |
| rain = slight                | 8/14 = 0.57             | 0/2 = 0                | 0/3 = 0                | 0/1 = 0                |
| <b>rain =<br/>heavy</b>      | <b>1/14 = 0.07</b>      | <b>1/2 = 0.5</b>       | <b>2/3 = 0.67</b>      | <b>1/1 = 1</b>         |
| <b>Prior<br/>Probability</b> | <b>14/20 =<br/>0.70</b> | <b>2/20 =<br/>0.10</b> | <b>3/20 =<br/>0.15</b> | <b>1/20 = 0.05</b>     |

**Figure 2.2** Conditional and Prior Probabilities: *train* Dataset