**Excel COUNTIF Function**

Mr. Bob William is a producer of music videos. He wants to know answers to some questions from the data set "***singer_data.xlsx***". You are required to answer the following questions with detailed Excel formula you use.

1. Prepare a list of unique singers and count how many songs each singers sang.

   **Answer:**

   **Tips:** before starting to work on the questions, it is better to name the range of cells. I have named the range as follows:

   | Cell range | Given Name |
   |------------|------------|
   | B2:B1217 | Singer |
   | C2:C1217 | Date |
   | D2:D1217 | Minute |

   The first formula I have written is =COUNTIF (singer, L2)

   | Singer | Number of Songs |
   |--------|-----------------|
   | Taylor | 114 |
   | Justin | 112 |
   | Selena | 131 |
   | Shawn | 129 |
   | Maghan | 114 |
   | Ellie | 133 |
   | Rachel | 103 |
   | Charlie | 115 |
   | Ariana | 69 |
   | Sheeran | 196 |

2. How many songs were not sung by **Taylor?**

   **Answer: 1102**

   **Formula:** =COUNTIF(singer, "<>Taylor")

3. How many songs were sung after June 15, 2016?

Answer: 877

Formula: =COUNTIF(date,">6/15/2016")

4. How many songs were sung between April 7, 2016, and May 31, 2017?

Answer: 70

Formula: =COUNTIF(date,"<5/31/2017")-COUNTIF(date,">4/7/2016")

5. How many singers' last name has the letter R?

Answer: 103

Formula: =COUNTIF(singer, "R*")

6. How many songs were sung by Taylor in 2016?

Answer: 68

Formula:
=COUNTIFS(singer,"Taylor",date,">=1/1/2016",date,"<=12/31/2016")

7. How many songs were sung by Selena after 2016 and were more than 4 minutes long?

Answer: 97

Formula: =COUNTIFS(singer,"Selena", date,">=1/1/2017", minute,">=4")

8. How many singers' name has exactly 5 letters?

Answer: 262

Formula: =COUNTIF(singer, "?????")

9. How many songs were sung by Charlie before 2017 and were at least 5 minutes long?

Answer: 50

Formula: =COUNTIFS(singer, "Charlie", date, "<=1/1/2017", minute, "<=5")

10. How many songs were sung by Taylor, Selena, and Ellie after 2017?

Answer: 136

Formula: =SUM(COUNTIFS(singer,{"Taylor","Selena","Ellie"}, date, ">1/1/2017"))