**Essentials of IT**

**June 2022 Examination**

**Q1. The annual summary for the sales representatives of ABC. Co. is presented in the table below, which indicates the sales rep's name, the target sales assigned to him, the sales achieved by him, and the percentage of sales. Explain any four different conditional formatting styles (4 marks) and apply the following conditional formatting rules to the table presented below:**

**a. Show in green the percentage for any sales rep achieving more than 100% of their target (1 mark)**

**b. Show arrows icons for the achieved column (1 mark)**

**c. Highlight the sales rep with the name Carla in pink with a red font (2 marks)**

**d. Use the yellow colour to show a sales rep who has a target of less than Rs. 75000 sales (2 marks)**

**You can choose to show the final table in the colour formatted manner.**

|  |
| --- |
| **Sales Reps - Annual Summary** |
| **Name** | **Target****(in****Rs.)** | **Achieved** | **Percentage** |
| **Jenifer Murthy** | **85000** | **94,500** | **111.18%** |
| **Ivan Martha** | **120000** | **1,18,000** | **98.33%** |
| **Carla Parth** | **100000** | **1,07,000** | **107.00%** |
| **Randy Cunningham** | **65000** | **29,000** | **44.62%** |
| **Arthur Shore** | **50000** | **67,000** | **134.00%** |
| **Hugh Rego** | **150000** | **1,98,000** | **132.00%** |
| **Wendy Hussain** | **95000** | **1,24,750** | **131.32%** |
| **Carla Suzan** | **95000** | **94750** | **99.74%** |
| **Christmas Dias** | **75000** | **75,000** | **100.00%** |

**Note: Q 1 is of 10 marks. The mark bifurcation is mentioned with each sub-question.**

**Answer 1.**

**Introduction**

Conditional formatting is used to highlight the cells and some values in cells. When we desire something to see special or identify conveniently, we use conditional format. Conditional formatting is of many types of the coloring of font and background dental filling of cells or symbols to determine specific cells. We can color the values according to the dimension percent to highlight unique names. This conditional formatting assists the audience in getting a hold of interest at particular positions. In the represented data, a table is provided which includes the

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**Q2. Use the table mentioned below to convert this data into a pivot table and find the overall average speed of all rides that satisfy the following criteria:**

** The Type is Steel (3 marks)**

** The Design is Sit Down (3 marks)**

** The Amusement Park has the word adventure somewhere in the title ( 2 marks)**

** Use the filter option to display the different designs of rides. Mention the count for each of these ( 2 marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Roller****Coaster** | **Amusement Park** | **Type** | **Design** | **Status** | **Opened** | **Speed ( mph****)** |
| **Air** | **Alton Towers** | **Steel** | **Flying** | **Operating** | **2002**  | **46.6** |
| **Boomerang** | **Pleasure Island Family Theme****Park** | **Steel** | **Sit Down** | **Operating** | **1993** | **47** |
| **Cobra** | **Paultons Park** | **Steel** | **Sit Down** | **Operating** | **2006** | **31.1** |
| **Colossus** | **Thorpe Park** | **Steel** | **Sit Down** | **Operating** | **2002** | **45** |
| **Corkscrew** | **Alton Towers** | **Steel** | **Sit Down** | **Operating** | **1980** | **40** |
| **Corkscrew** | **Flamingo Land Theme Park &****Zoo** | **Steel** | **Sit Down** | **Operating** | **1983** | **40** |
| **Crazy Mouse** | **South Pier** | **Steel** | **Sit Down** | **Operating** | **1998** | **29.1** |
| **Crazy Mouse** | **Brighton Pier** | **Steel** | **Sit Down** | **Operating** | **2000** | **29.1** |
| **Enigma** | **Pleasure wood Hills** | **Steel** | **Sit Down** | **Operating** | **1995** | **34** |
| **Express** | **M&Ds Scotland's Theme Park** | **Steel** | **Sit Down** | **Operating** | **2006** | **28** |
| **Fantasy****Mouse** | **Fantasy Island** | **Steel** | **Sit Down** | **Operating** | **2000** | **29.1** |
| **G Force** | **Drayton Manor Park** | **Steel** | **Sit Down** | **Operating** | **2005** | **43.5** |
| **Grand****National** | **Pleasure Beach, Blackpool** | **Wood** | **Sit Down** | **Operating** | **1935** | **40** |
| **Infusion** | **Pleasure Beach, Blackpool** | **Steel** | **Inverted** | **Operating** | **2007** | **49.7** |
| **Irn-Bru****Revolution** | **Pleasure Beach, Blackpool** | **Steel** | **Sit Down** | **Operating** | **1979** | **45** |
| **Jubilee****Odyssey** | **Fantasy Island** | **Steel** | **Inverted** | **Operating** | **2002** | **63** |
| **Jungle****Coaster** | **Legoland Windsor** | **Steel** | **Sit Down** | **Operating** | **2004** | **35** |
| **Knightmare** | **Camelot Theme Park** | **Steel** | **Sit Down** | **Operating** | **2007** | **43.5** |
| **Kumali** | **Flamingo Land Theme Park &****Zoo** | **Steel** | **Inverted** | **Operating** | **2006** | **54.9** |
| **Magic Mouse** | **Brean Leisure Park** | **Steel** | **Sit Down** | **Operating** | **2007** | **29.1** |
| **Megafobia** | **Oakwood Theme Park** | **Wood** | **Sit Down** | **Operating** | **1996** | **48** |
| **Millennium****Roller****Coaster** | **Fantasy Island** | **Steel** | **Sit Down** | **Operating** | **1999** | **55.9** |
| **Nemesis** | **Alton Towers** | **Steel** | **Inverted** | **Operating** | **1994** | **50** |
| **Nemesis****Inferno** | **Thorpe Park** | **Steel** | **Inverted** | **Operating** | **2003** | **47.8** |
| **New Roller****Coaster** | **New Metro Land** | **Steel** | **Sit Down** | **Operating** | **1988** | **26.8** |
| **Oblivion** | **Alton Towers** | **Steel** | **Sit Down** | **Operating** | **1998** | **68** |
| **Pepsi Max****Big One** | **Pleasure Beach, Blackpool** | **Steel** | **Sit Down** | **Operating** | **1994** | **74** |
| **Rage** | **Adventure Island** | **Steel** | **Sit Down** | **Operating** | **2007** | **43.5** |
| **Rat** | **Loudoun Castle** | **Steel** | **Sit Down** | **Operating** | **2005** | **28** |
| **Rattlesnake** | **Chessington World of****Adventures** | **Steel** | **Sit Down** | **Operating** | **1998** | **28** |
| **Rhino****Coaster** | **West Midlands Safari Park** | **Steel** | **Sit Down** | **Operating** | **1992** | **28.5** |
| **Rita - Queen****of Speed** | **Alton Towers** | **Steel** | **Sit Down** | **Operating** | **2005** | **61.1** |
| **Roller****Coaster** | **Great Yarmouth Pleasure****Beach** | **Wood** | **Sit Down** | **Operating** | **1932** | **45** |
| **Roller****Coaster** | **Pleasure Beach, Blackpool** | **Wood** | **Sit Down** | **Operating** | **1933** | **35** |
| **Roller****Coaster** | **Wicksteed Park** | **Steel** | **Sit Down** | **Operating** | **2000** | **28** |
| **Shockwave** | **Drayton Manor Park** | **Steel** | **Stand Up** | **Operating** | **1994** | **53** |
| **Speed: No****Limits** | **Oakwood Theme Park** | **Steel** | **Sit Down** | **Operating** | **2006** | **59** |
| **Stealth** | **Thorpe Park** | **Steel** | **Sit Down** | **Operating** | **2006** | **80** |
| **Tornado** | **M&Ds Scotland's Theme Park** | **Steel** | **Sit Down** | **Operating** | **1998** | **44.7** |
| **Tsunami** | **M&Ds Scotland's Theme Park** | **Steel** | **Inverted** | **Operating** | **2004** | **38** |
| **Twist and****Shout** | **Loudoun Castle** | **Steel** | **Sit Down** | **Operating** | **2003** | **41** |
| **Twister** | **Light water Valley** | **Steel** | **Sit Down** | **Operating** | **2001** | **29.1** |
| **Ultimate** | **Light water Valley** | **Steel** | **Sit Down** | **Operating** | **1991** | **50** |
| **Vampire** | **Chessington World of****Adventures** | **Steel** | **Suspended** | **Operating** | **2002** | **45** |
| **Velocity** | **Flamingo Land Theme Park &****Zoo** | **Steel** | **Sit Down** | **Operating** | **2005** | **54** |
| **Wall's****Twister Ride** | **West Midlands Safari Park** | **Steel** | **Sit Down** | **Operating** | **1998** | **29.1** |
| **Whirlwind** | **Camelot Theme Park** | **Steel** | **Sit Down** | **Operating** | **2003** | **37.3** |
| **Wild Mouse** | **Flamingo Land Theme Park &****Zoo** | **Steel** | **Sit Down** | **Operating** | **1997** | **28** |
| **Wipeout** | **Pleasure wood Hills** | **Steel** | **Sit Down** | **Operating** | **2007** | **47** |
| **No Way Out** | **Thorpe Park** | **Steel** | **Sit Down** | **Operating** | **1996** | **27.7** |

**Note: Q 2 is of 10 Marks. The mark bifurcation is mentioned with each sub-question.**

**Answer 2.**

**Introduction**

The given data is about the roller coaster. Roller coasters are of various types and consist of different designs. The regulating systems are also different. The speed of these roller coasters is also varied for various sorts of roller coasters and their design. Which are present in various amusement parks? The data provides information about the roller coaster type, design, standing when it was begun, and the roller coasters speed. The given data is converted into a pivot graph

**Q3.a. Use the table mentioned below to represent the chocolate bar favourites in UK and France using a bar chart. Which is the most popular chocolate in France? Use a line graph to plot the chocolate sales across the four regions. (5 Marks)**

**3a. Answer**

**Introduction**

The data provides information about the sales of chocolate bars in various countries. The data provides the various chocolate bars sales in the UK, France, U.S.A., and Germany. The chocolate bar companies are Bounty, Mars Bar, Dairy Milk Silk, Dairy Crunch, Dairy Milk, Snick

**3.b. Use the different functions in MS-Excel to calculate the average, median, standard deviation, sum and range of the following numbers for France. (5 Marks)**

**3b Answer**

**Introduction**

The given data describes the sales of the different chocolate bars in France. In France, chocolate bar sales are calculated by various chocolate firms like Bounty, Mars Bar, Dairy Milk Silk, Dairy Crunch, Dairy Milk, Snickers, Hershey Bar, Lindt Lindor Bar, KitKat, and Dime Bar sales. We