**Essentials of IT**

**September 2022 Examination**

**Q1. Based on the data shared below, answer the questions that follow. Show the output in a different table for each of the questions mentioned below.**

**a) Highlight marks of students that are greater than 60 to green.**

**b) Highlight those cities which contain the text “ster.”**

**c) Who are the top 10 % of performers in the class? Highlight their scores in red.**

**d) Highlight those cities which are duplicates using Conditional Formatting.**

**e) Use the colour grading scheme to highlight the marks obtained by the students.**

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**Q2. Use an appropriate form of chart to display the data presented below. What is the importance of using visualizations to interpret data? Explain any five kinds of charts and the best scenarios under which they are used.**

|  |  |  |
| --- | --- | --- |
| **Month** | **Snow Ski Sales** | **Water Ski Sales** |
| **Jan** | **6,897** | **1,983** |
| **Feb** | **7,732** | **5,547** |
| **Mar** | **4,500** | **7,330** |
| **Apr** | **3,122** | **9,832** |
| **May** | **893** | **10,739** |
| **June** | **734** | **16,453** |
| **July** | **891** | **15,874** |
| **Aug** | **559** | **9,833** |
| **Sept** | **5,433** | **3,244** |
| **Oct** | **8,734** | **2,873** |
| **Nov** | **11,873** | **3,459** |
| **Dec** | **18,730** | **5,433** |

**Ans 2.**

When analyzing data, it is important to use visualizations to find patterns and trends. The use of visual representations may also be beneficial in illuminating the connections between various factors. Summer is the busiest season for water skis, whereas winter is the busiest for snow skis. Snow skis are more popular than water skis, according to sales. People are more inclined to go skiing during the winter months. The optimum application of a line chart is to demonstrate change over time or data that can be broken down into specific time periods (like quarterly sales

**Q3. The data to be used for the pivot table is mentioned below. Present a screen-shot for each subquestion.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Colour** | **Region** | **Units** | **Sales** |
| **03-Jan-16** | **Red** | **North** | **1** | **300** |
| **13-Jan-16** | **Blue**  | **East** | **8** | **2400** |
| **21-Jan-17** | **Green**  | **West** | **5** | **400** |
| **30-Jan-17** | **Blue**  | **South** | **7** | **560** |
| **07-Feb-16** | **Green**  | **North** | **8** | **2400** |
| **13-Feb-18** | **Red** | **East** | **6** | **760** |
| **21-Feb-16** | **Blue**  | **West** | **7**  | **770** |
| **01-Mar-19** | **Green**  | **South** | **2** | **240** |
| **13-Mar-16** | **Blue**  | **North** | **7**  | **770** |
| **23-Mar-18** | **Blue** | **East** | **6** | **840** |
| **28-Mar-17** | **Green**  | **West** | **4** | **560** |
| **03-Apr-19** | **Blue** | **South** | **5** | **670** |

**a. Using a Pivot Table, what is the sum of sales for each of the colours.**

**Ans 3a.**

**b. What is the sum of sales each year? How many units of each colour were sold?**

**Ans 3b.**

The sum of sales each year: