**Essentials of IT**

**December 2022 Examination**

**1. Create a Pivot Table based on the information given in the worksheet. Create a standalone Pivot Chart based on the given information. (10 Marks)**

**Please check below**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Month** | **Product A** | **Product B** | **Product C** | **Product D** |
| **Jan** | **25** | **25** | **35** | **63** |
| **Feb** | **36** | **36** | **24** | **45** |
| **Mar** | **24** | **45** | **35** | **87** |
| **Apr** | **45** | **64** | **83** | **36** |
| **May** | **64** | **63** | **69** | **24** |
| **Jun** | **35** | **85** | **45** | **35** |
| **Jul** | **85** | **69** | **87** | **85** |
| **Aug** | **69** | **57** | **35** | **69** |
| **Sep** | **57** | **36** | **52** | **24** |
| **Oct** | **63** | **24** | **45** | **45** |
| **Nov** | **45** | **45** | **64** | **64** |
| **Dec** | **87** | **64** | **63** | **75** |

**Ans 1.**

The ability to calculate, summarise, and analyze data with the help of a pivot table is an effective tool that allows you to see contrasts, patterns, and trends in your data. Excel's pivot tables can have various behaviors depending on the os platform that's being utilized to run the program.

To place it another means, pivot tables help you make sense of the seemingly endless assortment of numbers you see on your screen. In addition, it allows you to organize your data in a range of methods, making it much easier for you to draw conclusions It is only half solved

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**2. Use the table below to perform the tasks mentioned below: (10 Marks)**

**a. Conditional formatting to highlight the marks of students which are more than 75.**

**b. Use the slicer tool to filter data based on the student name.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Student Name** | **English** | **Hindi** | **Maths** | **Science** | **Social Science** |
| **Hema** | **65** | **85** | **86** | **87** | **58** |
| **Janki** | **87** | **54** | **95** | **65** | **65** |
| **Shanaya** | **58** | **94** | **57** | **48** | **86** |
| **Shaurya** | **57** | **58** | **49** | **86** | **57** |
| **Raj** | **47** | **85** | **69** | **54** | **86** |

**Ans 2.**

Conditional formatting to highlight the marks of students which are more than 75 is

Highlight Cell Rules is a premade type of conditional formatting in Excel used to change the appearance of cells in a range based on your specified conditions.

The conditions are rules based on specified numerical values, matching text, calendar dates, or duplicated and unique values.

Here the condition is based on the numerical value that is more than 75 for that greater than... option is used

**3. Based on the data provided in the table below :**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item Name** | **May** | **June** | **July** |
| **Clothes** | **1500** | **2500** | **1000** |
| **Meal** | **10000** | **12000** | **11000** |
| **Education** | **5000** | **5000** | **5500** |
| **Entertainment** | **2000** | **2500** | **1500** |
| **Investment** | **3600** | **3600** | **5000** |
| **Miscellaneous** | **25000** | **15000** | **10000** |

**a. Use an appropriate graph to display the trend of data for clothes and education over the three months (5 Marks)**

**b. Write a note on Database Languages that are used to perform different types of operations on an exisiting database (5 Marks)**

**Ans 3a.**

(a) The graph to display the trend of data for clothes and education over the three months is as follows:

**Ans 3(b).**

Most of us speak a specific language every day to carry on conversations with other people and trade ideas with them. Since it allows us to share our concepts and thoughts with other individuals in a manner they can understand, it plays an essential duty in our day-to-day lives.

In a comparable blood vessel, on the planet of data, we require a specific kind of program