**Essentials of IT**

**April 2023 Examination**

**1. Create a Pivot Table based on the information given in the worksheet which depicts the sales (in thousands) of Havdairy ice-cream flavours across cities in the month of April. Create a standalone PivotChart based on the given information. Present the total and sales across the different cities (10 Marks)**

**TABLE BELOW**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Flavours** | **City A** | **City B** | **City C** | **City C** |
| **Butterscotch** | **25** | **25** | **35** | **63** |
| **Vanilla** | **36** | **36** | **24** | **45** |
| **Strawberry** | **24** | **45** | **35** | **87** |
| **Chocolate** | **45** | **64** | **83** | **36** |
| **Kesar-Pista** | **64** | **63** | **69** | **24** |
| **Blackcurrent** | **35** | **85** | **45** | **35** |
| **Choco-Almond** | **85** | **69** | **87** | **85** |
| **Tender****Coconut** | **69** | **57** | **35** | **69** |
| **Mango** | **57** | **36** | **52** | **24** |
| **Guava** | **63** | **24** | **45** | **45** |
| **Kala Jamun** | **45** | **45** | **64** | **64** |
| **Chickoo** | **87** | **64** | **63** | **75** |

**Ans 1.**

**Introduction**

A pivot table can be called a stats tool that briefs, summarizes, and reorganizes picked rows and columns in a database or spreadsheet to acquire a preferred report. The tool does not alter the database or spreadsheet itself; it just transforms or pivots the information to see it from different perspectives.

Pivot tables work with large quantities of data that would be costly in terms of time to compute by hand. A few information handling works a pivot table can do is recognizing sums, averages, ranges

It is only half solved

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

**a. Use Conditional formatting to highlight the quantity which is greater than 200 b. Use the slicer tool to filter data based on the item weight**

**c. Use an appropriate text function to combine the first name and the last name and display the results**

**d. Use the colour scale option and format the Item Weight. What does this indicate?**

**e. Use the strikethrough option ti mark out those dates that are between 07-05-2020 and**

**14-08-2020**

**f. Explain the difference between SUM(), SUMIF() and SUMIFS() with an example**

**REFER TO THE TABLE BELOW**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **First****Name** | **Last****Name** | **Region** | **Met Sale****Goal** | **Item #** | **Quantity** | **Item****Weight** | **Item Manufactured on** |
| **Anurag** | **Shah** | **West** | **Yes** | **115-74** | **15** | **8** | **07-05-2020** |
| **Vedant** | **Patel** | **East** | **No** | **105-70** | **958** | **7** | **15-04-2020** |
| **Smithin** | **Rastogi** | **South** | **Yes** | **117-74** | **22** | **10** | **14-08-2020** |
| **Jagprit** | **Nair** | **North** | **Yes** | **121-49** | **69** | **12** | **30-04-2020** |
| **Prerak** | **Iyer** | **West** | **Yes** | **121-54** | **3** | **7** | **10-05-2020** |
| **Keshav** | **Hari** | **East** | **No** | **122-71** | **71** | **10** | **02-05-2020** |
| **Pavan** | **Sathe** | **North** | **Yes** | **120-49** | **113** | **8** | **14-08-2020** |
| **Tushar** | **Rego** | **East** | **No** | **122-71** | **532** | **7** | **14-08-2020** |
| **Shezil** | **Malhotra** | **North** | **Yes** | **119-36** | **212** | **11** | **13-04-2020** |
| **Hiren** | **Bhatia** | **West** | **No** | **107-35** | **371** | **10** | **02-05-2020** |
| **Shailendu** | **Shroff** | **East** | **Yes** | **104-55** | **147** | **10** | **13-04-2020** |
| **Pratik** | **Patel** | **West** | **Yes** | **113-65** | **79** | **8** | **10-05-2020** |
| **Mihir** | **Ashar** | **South** | **Yes** | **104-36** | **48** | **8** | **14-08-2020** |
| **Utkarsh** | **Chajjed** | **North** | **Yes** | **114-68** | **78** | **12** | **23-04-2020** |
| **Jigar** | **Nath** | **West** | **No** | **120-37** | **54** | **8** | **17-04-2020** |

**Ans 2.**

**Introduction**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Name | Last Name | Full name | Region | Met Sale | Item # | Quantity  | Item | Item Manufacture |
|  |  |  |  |  |  |  | Weigh | d on |
|  |  |  |  | Goal |  |  | t |  |
| Anurag | Shah | Anurag Shah | West | Yes | 115 | 15 | 8 | 07-05-2020 |
|  |  |  |  |  | -74 |  |  |  |
| Vedant | Patel | Vedant Patel | East | No | 105 | 958 | 7 | 15-04-2020 |
|  |  |  |  |  | -70 |  |  |  |

**3. Answer the questions that follow:**

**a. Explain the difference between data and information. Explain the need for databases.**

**What are the advantages of using Database Management Systems (DBMS) to manage data? (5 Marks)**

**Ans 3a.**

**Introduction**

|  |  |
| --- | --- |
| **Data** | **Information** |
| Data is superficial and unorganized truths. | Information consists of arranged, processed data provided in a purposeful context. |
| Data is a private component consisting of basic materials that do not have any meaning. | Information is a group of data that is collected and brings a rational meaning |
|  | Information calls for data |

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

**Ans 3b.**

**Introduction**

Database languages, additionally data question languages, clarify an explanation of programming languages that programmers use to gain access to and define databases, which are collections of data that customers can access online. These languages enable users to fulfill jobs such as specifying, managing access to data, upgrading