**Essentials of IT**

**NMIMS Centre for Distance and Online Education (NCDOE)**

**Internal Assignment Applicable for June 2025 Examination**

**Q1. Use this dataset to answer the questions that follow:**

[**h t t p s : / / d o c s . g o o g l e . c o m / s p r e a d s h e e t s / d / 1 L o - G7nkTf0H7FWlxSEuWu5G9AodiicNh/edit?usp=drive\_link&ouid=11645716942440**](https://docs.google.com/spreadsheets/d/1Lo-G7nkTf0H7FWlxSEuWu5G9AodiicNh/edit?usp=drive_link&ouid=116457169424408822386&rtpof=true&sd=true)

[**8822386&rtpof=true&sd=true**](https://docs.google.com/spreadsheets/d/1Lo-G7nkTf0H7FWlxSEuWu5G9AodiicNh/edit?usp=drive_link&ouid=116457169424408822386&rtpof=true&sd=true)

**1. With the help of a graph, present the approximate cost for two people according to the type of restaurant.**

**2. Create a graph to present the number of people who book tables online.**

**3. Create a graph to present the count of online orders who book online orders.**

**4. What is the number of restaurants that have greater than 4.0?**

**Answer:**

**Introduction:**

A graph in Excel is a visual representation of data using various chart types such as bar charts, line graphs, pie charts, column charts, and more. It helps users quickly understand trends, comparisons, and patterns within datasets by presenting numerical information in a graphical format.

Graphs in Excel are created by selecting a range of data and choosing a suitable chart type from the "Insert" tab. Excel then automatically plots the data, allowing users to customize elements like chart titles, axes, legends, colors, and data labels.

Graphs make complex data easier to interpret, making them valuable for analysis, reporting, and presentations. For instance, a line graph can show sales trends over time, while a pie chart can display the percentage share of different product categories.

Excel provides interactive features such as filtering, dynamic updates, and formatting tools to make graphs more informative and visually appealing. Users can also use chart tools to adjust layouts, styles, and data sources.

In summary, graphs in Excel enhance data analysis by providing a clear, visual way to display information, enabling quicker and more effective decision-making.

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**Q2A. Evaluate the impact of implementing a centralized Database Management System (DBMS) at a University to address data inconsistencies between the Academic Records System (ARS) and the Housing Records System (HRS)?**

**Answer:**

**Introduction:**

Universities manage vast amounts of data across various departments, including academic records and housing systems. However, inconsistencies often arise when these data systems operate separately, leading to inefficiencies and errors. Implementing a centralized Database Management System (DBMS) can address these issues by streamlining data across departments, ensuring consistency and accuracy. In this context, a centralized DBMS allows the integration of the Academic Records System (ARS) and the Housing Records System (HRS), creating a single point of access for all related data. This approach aims to enhance operational efficiency, reduce data duplication, and improve decision-making within the university.

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**Q2B.Use the MS Excel tool to answer the questions given below for the following dataset:**

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**Use conditional formatting to**

**1. Highlight candidate ID less than 3,00,000**

**2. Highlight those cells where the area is south-east**

**3. Mark candidates with Gender 'F'**

**4. Use data bars to indicate mature candidates over 40 years using condition**

**5. Highlight the cells with the top 5 % result**

**Answer:**

**Introduction:**

Conditional formatting is a feature in spreadsheet applications like Microsoft Excel and Google Sheets that allows users to automatically apply formatting—such as colors, icons, or data bars—to cells based on specific conditions or criteria. This tool enhances data visualization by making patterns, trends, or exceptions more noticeable at a glance.

For example, a user can set a rule to highlight all sales figures above ₹10,000 in green or mark values below a certain threshold in red. Conditional formatting is dynamic, meaning that when data changes, the formatting updates automatically based on the defined rules.

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