**LAB-4 HLOOKUP**

**Introduction**

This document focuses on the use of the HLOOKUP function in Excel, which is designed to search for data horizontally across rows. HLOOKUP is especially useful when dealing with datasets where headers are organized in rows rather than columns. Through this document, various practical applications of HLOOKUP will be demonstrated to highlight its effectiveness in retrieving specific data based on row headers.

**Objective**

The primary objectives of this document are to:

1. Understand the key features and use cases of the HLOOKUP function.
2. Apply HLOOKUP to retrieve sales data for different products across multiple months.
3. Showcase how HLOOKUP can streamline the process of looking up and analyzing data from horizontal data tables efficiently.

RAW DATA

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| **Product** | **Jan** | **Feb** | **Mar** | **Apr** | **May** |
| Product A | 120 | 130 | 140 | 150 | 160 |
| Product B | 150 | 160 | 170 | 180 | 190 |
| Product C | 200 | 210 | 220 | 230 | 240 |
| Product D | 90 | 100 | 110 | 120 | 130 |
| Product E | 220 | 230 | 240 | 250 | 260 |
| Product F | 130 | 140 | 150 | 160 | 170 |

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| Use HLOOKUP to find the sales for Product A in March. | | | | | | | | | | | |
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| 2. Use HLOOKUP to find the sales for Product D in May. | | | | | | | | | | | |
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| 3. Use HLOOKUP to find the sales for Product C in February. | | | | | | | | | | | |
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| 4. Use HLOOKUP to find the sales for each month for a product, then calculate the total sales for that product. | | | | | | | | | | | |
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| 5. Use HLOOKUP to find the maximum sales value for Product B across all months. | | | | | | | | | | | |
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| 6. Use HLOOKUP to find the minimum sales value for Product F across all months. | | | | | | | | | | | |
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| 7. Use HLOOKUP to find the average sales value for Product E across all months. | | | | | | | | | | | |

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| Use HLOOKUP to find the sales for Product A in March. | | | | | | | | | | | | |
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| **Product** | **Mar** |  |  |  |  |  |  |  |  |  |  |
| Product A | 140 |  |  |  |  |  |  |  |  |  |  |

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| 2. Use HLOOKUP to find the sales for Product D in May. | | | | | | | | | | | | |
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| **Product** | **May** |  |  |  |  |  |  |  |  |  |  |
| Product D | 130 |  |  |  |  |  |  |  |  |  |  |
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| 3. Use HLOOKUP to find the sales for Product C in February. | | | | | | | | | | | | |
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| **Product** | **Feb** |  |  |  |  |  |  |  |  |  |  |
| Product C | 210 |  |  |  |  |  |  |  |  |  |  |
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| 4. Use HLOOKUP to find the sales for each month for a product, then calculate the total sales for that product. | | | | | | | | | | | | |
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| **Product** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Total Sales** |  |  |  |  |  |
| Product A | 120 | 130 | 140 | 150 | 160 | 700 |  |  |  |  |  |
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| 5. Use HLOOKUP to find the maximum sales value for Product B across all months. | | | | | | | | | | | | |
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| **Product** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Max** |  |  |  |  |  |
| Product B | 150 | 160 | 170 | 180 | 190 | 190 |  |  |  |  |  |
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| 6. Use HLOOKUP to find the minimum sales value for Product F across all months. | | | | | | | | | | | | |
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| **Product** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Max** |  |  |  |  |  |
| Product F | 130 | 140 | 150 | 160 | 170 | 130 |  |  |  |  |  |
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| 7. Use HLOOKUP to find the average sales value for Product E across all months. | | | | | | | | | | | | |
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| **Product** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Max** |  |  |  |  |  |
| Product E | 220 | 230 | 240 | 250 | 260 | 240 |  |  |  |  |  |