**HLOOKUP LAB**

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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 |

**Question**: Use HLOOKUP to find the sales for **Product A in March**.

**Solution**:

1. Locate the **header row** (Row 1) where the months (Jan, Feb, Mar, etc.) are mentioned.
2. Identify the **lookup value**: "Mar".
3. Define the table array: $A$1:$F$6.
4. Locate the row index for **Product A**, which is Row 2.
5. Use the HLOOKUP formula:

=HLOOKUP("Mar", $A$1:$F$6, 2, FALSE)

1. The formula searches for "Mar" in the header and retrieves the corresponding value in Row 2.

**Answer**: **140**

**Question**: Use HLOOKUP to find the sales for **Product D in May**.

**Solution**:

1. Identify the **lookup value**: "May".
2. Define the table array: $A$1:$F$6.
3. Locate the row index for **Product D**, which is Row 5.
4. Use the HLOOKUP formula:

=HLOOKUP("May", $A$1:$F$6, 5, FALSE)

1. The formula searches for "May" in the header and retrieves the corresponding value in Row 5.

**Answer**: **130**

**Question**: Use HLOOKUP to find the sales for **Product C in February**.

**Solution**:

1. Identify the **lookup value**: "Feb".
2. Define the table array: $A$1:$F$6.
3. Locate the row index for **Product C**, which is Row 4.
4. Use the HLOOKUP formula:

=HLOOKUP("Feb", $A$1:$F$6, 4, FALSE)

1. The formula searches for "Feb" in the header and retrieves the corresponding value in Row 4.

**Answer**: **210**

**Question**: Use HLOOKUP to find the sales for each month for **Product B**, then calculate the total sales.

**Solution**:

1. Use HLOOKUP to retrieve the sales values for Product B (Row 3) across all months:
   * January: =HLOOKUP("Jan", $A$1:$F$6, 3, FALSE) → **150**
   * February: =HLOOKUP("Feb", $A$1:$F$6, 3, FALSE) → **160**
   * March: =HLOOKUP("Mar", $A$1:$F$6, 3, FALSE) → **170**
   * April: =HLOOKUP("Apr", $A$1:$F$6, 3, FALSE) → **180**
   * May: =HLOOKUP("May", $A$1:$F$6, 3, FALSE) → **190**
2. Use the SUM formula to calculate the total:

=SUM(150, 160, 170, 180, 190)

**Answer**: **850**

**Question**: Use HLOOKUP to find the **maximum sales** value for **Product B** across all months.

**Solution**:

1. Retrieve all the sales values for Product B across all months:
   * January to May: **150, 160, 170, 180, 190**
2. Use the MAX formula:

=MAX(B3:F3)

**Answer**: **190**

**Question**: Use HLOOKUP to find the **minimum sales** value for **Product F** across all months.

**Solution**:

1. Retrieve all the sales values for Product F across all months:
   * January to May: **130, 140, 150, 160, 170**
2. Use the MIN formula:

=MIN(B7:F7)

**Answer**: **130**

**Question**: Use HLOOKUP to find the **average sales** value for **Product E** across all months.

**Solution**:

1. Retrieve all the sales values for Product E across all months:
   * January to May: **220, 230, 240, 250, 260**
2. Use the AVERAGE formula:

=AVERAGE(B6:F6)

**Answer**: **240**