|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ProductID | Product | Category | Jan Sales | Feb Sales | Mar Sales | April Sales | May Sales |
| 101 | PROD A | Electronics | 120 | 130 | 140 | 150 | 160 |
| 102 | PROD B | Furniture | 150 | 160 | 170 | 180 | 190 |
| 103 | PROD C | electronics | 200 | 210 | 220 | 230 | 240 |
| 104 | PROD D | Clothing | 90 | 100 | 110 | 120 | 130 |
| 105 | PROD E | furniture | 220 | 230 | 240 | 250 | 260 |
| 106 | PROD F | electronics | 130 | 140 | 150 | 160 | 170 |

1. Use INDEX and MATCH to find the sales for Product C in March.

|  |  |  |
| --- | --- | --- |
| ProductID | Product | Mar Sales |
| 103 | PROD C | 220 |

1. Use INDEX and MATCH to find the category for Product E.

|  |  |
| --- | --- |
| Product | Category |
| PROD E | furniture |

3. Use INDEX and MATCH to find the maximum sales for Product B

across all months.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Product | Category | Jan Sales | Feb Sales | Mar Sales | April Sales | May Sales |
| PROD C | electronics | 200 | 210 | 220 | 230 | 240 |
|  |  |  |  |  |  |  |
|  |  |  |  |  | max | 240 |

4. Use INDEX and MATCH to find the month with the maximum sales

for Product A.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Product | Category | Jan Sales | Feb Sales | Mar Sales | April Sales | May Sales |
| PROD A | electronics | 120 | 130 | 140 | 150 | 160 |
|  |  |  |  |  |  |  |
|  |  |  |  | max | 160 |  |

5. Use INDEX, MATCH, and SUMIF to sum the sales for all products in

the "Electronics" category for April.

|  |  |
| --- | --- |
| Product | April Sales |
| electronics | 150 |
| Electronics | 150 |
| Electronics | 230 |
| sum if | 530 |

6. Use INDEX and MATCH to calculate the average sales for Product D

across all months.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ProductID | Product | Category | Jan Sales | Feb Sales | Mar Sales | April Sales | May Sales |
| 104 | PROD D | Clothing | 90 | 100 | 110 | 120 | 130 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | average | 110 |  |

7. Use INDEX and MATCH to find the sales for Product ID 105 in May.

|  |  |  |
| --- | --- | --- |
| ProductID | Product | May Sales |
| 105 | PROD E | 260 |

8. Use INDEX and MATCH to create a dynamic lookup where the user

can input a product and a month, and the formula returns the

corresponding sales.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ProductID | Product | Category | Jan Sales | Feb Sales | Mar Sales | April Sales | May Sales | PROD C |
| 101 | PROD A | Electronics | 120 | 130 | 140 | 150 | 160 | April Sales |
| 102 | PROD B | Furniture | 150 | 160 | 170 | 180 | 190 |  |
| 103 | PROD C | electronics | 200 | 210 | 220 | 230 | 240 |  |
| 104 | PROD D | Clothing | 90 | 100 | 110 | 120 | 130 |  |
| 105 | PROD E | furniture | 220 | 230 | 240 | 250 | 260 |  |
| 106 | PROD F | electronics | 130 | 140 | 150 | 160 | 170 |  |
|  |  |  |  |  |  |  |  |  |
| **Formula** | | 230 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |