

Questions

1. IF Function:

- Determine if employees are earning above or below \$50,000. Use the IF function to display "Above" or "Below".
- Using :-
- **= IF((F2>50000),"Above","Below")**

2. IFS Function:

- Assign a performance rating based on the number of project hours: "Excellent" for 50 or more hours, "Good" for 40-49 hours, "Average" for 30-39 hours, and "Poor" for below 30 hours.
- Using :-
- **= IFS(J2>=50,"Excellent",AND(J2<=49,J2>=40),"Good",AND(J2<=39,J2>=30),"Average",J2<30,"Poor")**

3. AND Function:

- Check if employees from the HR department and North region have sales above \$15,000.
- Using:-
- **= IF(AND(E2="HR",I2="North",F2>15000),"True","false")**

4. OR Function:

- Identify employees who are either in the IT department or have a salary above \$60,000.
- Using:-
- **= IF(OR(E2="IT",F2>60000),"True","false")**

5. NOT Function:

- Determine if employees are not from the Marketing department.
- Using:-
- **= IF(NOT(E2<>"Marketing"),"True","false")**

6. SUMIF Function:

- Calculate the total salary of employees from the Sales department.
- Using:-
- **=SUMIF(E2:E201,"Sales",F2:F201)**
Answer:- 1813735

7. SUMIFS Function:

- Calculate the total salary of employees in the IT department who have more than 35 project hours.
- Using:-
- **=SUMIFS(F2:F201,E2:E201,"IT",J2:J201,">=35")**
Answer:- 1629219

8. COUNTIF Function:

- Count the number of employees in the HR department.
- Using:-
- **=COUNTIF(E2:E201,"HR")**
Answer:-44

9. COUNTIFS Function:

- Count the number of female employees in the Finance department.
- Using:-
- **=COUNTIFS(D2:D201,"F",E2:E201,"Finance")**
Answer:-22

10. AVERAGEIF Function:

- Find the average salary of employees in the Marketing department.
- Using:-
- **=AVERAGEIF(E2:E201,"Marketing",F2:F201)**
Answer:- 53389.47368

11. AVERAGEIFS Function:

- Find the average sales for employees in the North region with project hours above 40.
- Using:-** =AVERAGEIFS(H2:H201,I2:I201,"North",J2:J201,">40")
Answer:- 22015.65217

12. MAXIFS Function:

- Determine the maximum salary among employees in the South region.
- Using:-** =MAXIFS(F2:F201,I2:I201,"South")
Answer:- 77358

13. MINIFS Function:

- Find the minimum number of project hours for employees in the Finance department.
- Using:-** =MINIFS(J2:J201,E2:E201,"Finance")
Answer:- 22

14. VLOOKUP Function:

- Use VLOOKUP to find the salary of an employee based on their ID.
- Using:-** = VLOOKUP(A2,Sheet1!A2:J201,6,FALSE)

15. HLOOKUP Function:

- Use HLOOKUP to find the joining date of employees based on their department.
- Using:-** =HLOOKUP(G2,G2:G201,MATCH(I222,E2:E201,0))
Answer :- For Dept ="IT" date is 6-7-2021

16. INDEX and MATCH Functions:

- Use INDEX and MATCH to find the sales amount for a specific employee.
- Using:-** = INDEX(H2:H202, MATCH(H226, B2:B202, 0))
Answer:- For Employee name "Heather cook"
Sales is 17883

17. Conditional Formatting:

- Highlight cells in the Salary column that are above \$60,000.
- Range:-** F2:F201
- Value is greater than** 60000

18. Pivot Table:

- Create a pivot table to summarize average sales by region and department.

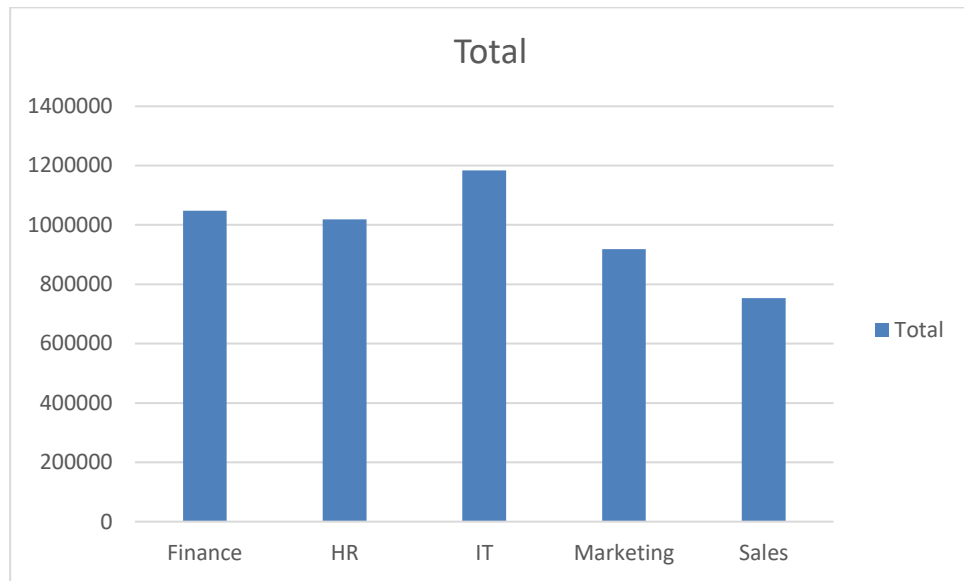
| Average of Sales | Column Labels | | | | |
|--------------------|--------------------|--------------------|-----------------|--------------------|------------------|
| Row Labels | East | North | South | West | Grand Total |
| Finance | 21695.25 | 25643.8 | 25144.54545 | 25450.9 | 24369.30233 |
| HR | 28007.4 | 23668 | 21239.91667 | 20289 | 23147.27273 |
| IT | 26365.25 | 27001.66667 | 28201.22222 | 28969.9 | 27532.86047 |
| Marketing | 21329.22222 | 23127.72727 | 28375.08333 | 21917.83333 | 24167.78947 |
| Sales | 27965.25 | 21239.375 | 26815 | 19889.7 | 23544.5 |
| Grand Total | 24950.68627 | 24329.34615 | 25733.42 | 23357.25532 | 24610.365 |

19. Data Validation:

- Set up data validation to allow only dates after 2015-01-01 in the Joining Date column.
- Range:-** G2:G201
- Date is after** 2015-01-01

20. Chart Creation:

- Create a bar chart to visualize the total sales by department.



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