Questions

# IF Function:

* + Determine if employees are earning above or below $50,000. Use the IF function to display "Above" or "Below".
  + Answer:-

=IF(F2>50000,"ABOVE","BELOW")

# 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.
  + Answer: =IFS(J27>=50,"EXCELLENT",J27>=40,"GOOD",J27>=30,"AVERAGE",J27<=30,"POOR")

# AND Function:

* + Check if employees from the HR department and North region have sales above

$15,000.

* Answer:-

=IF(AND(E28="HR",I28="North",H28>15000),"Match","No match")

# OR Function:

* + Identify employees who are either in the IT department or have a salary above

$60,000.

Answer :-

=IF(OR(E28="IT",F28>60000),"Match","No Match")

# NOT Function:

* + Determine if employees are not from the Marketing department.
  + Answer:-

=IF(NOT(E2:E201="Marketing"),"No","Yes")

# SUMIF Function:

* + Calculate the total salary of employees from the Sales department.
  + Answer:-

=SUMIF(E2:E201,"Sales",F2:F201)

Answer:- 1813735

# SUMIFS Function:

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

Answer:- 1629219

# COUNTIF Function:

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

# COUNTIFS Function:

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

# AVERAGEIF Function:

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

Answer:- 53389.47368

# AVERAGEIFS Function:

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

Answer:- 22015.65217

# MAXIFS Function:

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

Answer:- 77358

# MINIFS Function:

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

# VLOOKUP Function:

* + Use VLOOKUP to find the salary of an employee based on their ID.
  + Answer:- =VLOOKUP(AA36,A2:F201,6,0)
  + Answer :- For input 50 Salary is 50514

# HLOOKUP Function:

* + Use HLOOKUP to find the joining date of employees based on their department.
  + Answer:- =HLOOKUP(G2,G2:G201,MATCH(AA39,E2:E201,0))
  + Answer :- For Dept =”IT” date is 6-7-2021

# INDEX and MATCH Functions:

* + Use INDEX and MATCH to find the sales amount for a specific employee.
  + Answer:- =INDEX(H:H,MATCH(AA42,A:A,0))
  + Answer:- For id 50 Sales is 17681

# Conditional Formatting:

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

# Pivot Table:

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

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| 1 | (All) | | |  | |
|  |  | | |  | |
| **Row Labels** | **Average of 13394** | | |  | |
| **East** | **24950.68627** | | |  | |
| Finance | 21695.25 | | |  | |
| HR | 28007.4 | | |  | |
| IT | 26365.25 | | |  | |
| Marketing | 21329.22222 | | |  | |
| Sales | 27965.25 | | |  | |
| **North** | **24543.76471** | | |  | |
| Finance | 25643.8 | | |  | |
| HR | 23668 | | |  | |
| IT | 28238.72727 | | |  | |
| Marketing | 23127.72727 | | |  | |
| Sales | 21239.375 | | |  | |
| **South** | **25733.42** | | |  | |
| Finance | 25144.54545 | | |  | |
| HR | 21239.91667 | | |  | |
| IT | 28201.22222 | | |  | |
| Marketing | 28375.08333 | | |  | |
| Sales | 26815 | | |  | |
| **West** | **23357.25532** | | |  | |
| Finance | 25450.9 | | |  | |
| HR | 20289 | | |  | |
| IT | 28969.9 | | |  | |
| Marketing | 21917.83333 | | |  | |
| Sales | 19889.7 | | |  | |
| **Grand Total** | **24666.72864** | | |  | |
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# 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

# Chart Creation:

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