Questions

# 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"))

# 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",J2>=40,"GOOD",J2>=30,"AVERAGE",J2>=20,"POOR")

# AND Function:

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

$15,000.

Using:-

=IF(E2="HR",AND(I2="North",H2>15000))

# OR Function:

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

$60,000.

Using:-

=OR(E2="IT",F2>60000

# NOT Function:

* + Determine if employees are not from the Marketing department.
  + Using:-
  + =NOT(E2="Marketing")

# SUMIF Function:

* + Calculate the total salary of employees from the Sales department.
  + Using:-
  + =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.
  + Using:-
  + =SUMIFS(F2:F201,E2:E201,"IT",J2:J201,">35")

Answer:- 1629219

# COUNTIF Function:

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

# COUNTIFS Function:

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

# AVERAGEIF Function:

* + Find the average salary of employees in the Marketing department.
  + Using:-
  + =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.
  + Using:- =AVERAGEIFS(H2:H201,I2:I201,"North",J2:J201,">40")

Answer:- 22015.65217

# MAXIFS Function:

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

Answer:- 77358

# MINIFS Function:

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

# VLOOKUP Function:

* + Use VLOOKUP to find the salary of an employee based on their ID.
  + Using:- =VLOOKUP(AC31,A2:J201,6,0)
  + Answer :- For input 50 Salary is 50514

# HLOOKUP Function:

* + Use HLOOKUP to find the joining date of employees based on their department.
  + Using:- =HLOOKUP(G2,G2:G201,MATCH(AC34,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.
  + Using:- =INDEX(H2:H201,MATCH(AC37,A2:A201,0))
  + 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.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| **Average of Sales** | **Column Labels** | |  |  |  |  |
| **Row Labels** | **Finance** | **HR** | **IT** | **Marketing** | **Sales** | **Grand Total** |
| East | 21695.25 | 28007.40 | 26365.25 | 21329.22 | 27965.25 | 24950.69 |
| North | 25643.80 | 23668.00 | 27001.67 | 23127.73 | 21239.38 | 24329.35 |
| South | 25144.55 | 21239.92 | 28201.22 | 28375.08 | 26815.00 | 25733.42 |
| West | 25450.90 | 20289.00 | 28969.90 | 21917.83 | 19889.70 | 23357.26 |
| **Grand Total** | **24369.30** | **23147.27** | **27532.86** | **24167.79** | **23544.50** | **24610.37** |

# 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.