

Questions for practice on Excel

1. IF()

- **Sales Data (Sheet: Sales Data):** If the sales amount is greater than 500, label the sale as "High". Otherwise, label it as "Low" in a new column.
- **Employee Data (Sheet: Employee Data):** If an employee's performance score is greater than or equal to 4, assign "Good" in a new column. Otherwise, assign "Needs Improvement".
- **Inventory Management (Sheet: Inventory Management):** If the sales price of an item is greater than 100, label it as "Expensive". Otherwise, label it as "Affordable".
- **Student Grades (Sheet: Student Grades):** If a student's score is greater than or equal to 75, assign "Distinction". Otherwise, assign "Pass".

2. IFS()

- **Student Grades (Sheet: Student Grades):** Use IFS() to assign letter grades based on the score: A for scores ≥ 85 , B for scores ≥ 70 , C for scores ≥ 50 , and D for scores < 50 .
- **Inventory Management (Sheet: Inventory Management):** Use IFS() to classify stock levels: "Low" if stock level is below 10, "Moderate" if between 10 and 30, and "High" if above 30.
- **Sales Data (Sheet: Sales Data):** Use IFS() to classify sales performance: "Excellent" for sales amounts over 700, "Good" for sales between 400 and 700, "Moderate" for sales between 200 and 400, and "Poor" for sales less than 200.
- **Expense Tracker (Sheet: Expense Tracker):** Classify expenses: "High" for amounts over 900, "Medium" for amounts between 500 and 900, and "Low" for amounts less than 500.

3. SUM()

- **Expense Tracker (Sheet: Expense Tracker):** Calculate the total expenses for all months.
- **Sales Data (Sheet: Sales Data):** Find the total sales amount across all products.
- **Employee Data (Sheet: Employee Data):** Calculate the total salary of all employees combined.
- **Student Grades (Sheet: Student Grades):** Find the total score for all students in "Math".

4. SUMIF()

- **Expense Tracker (Sheet: Expense Tracker):** Find the total amount spent on "Rent".
- **Sales Data (Sheet: Sales Data):** Calculate the total sales for the "Electronics" category.
- **Inventory Management (Sheet: Inventory Management):** Calculate the total purchase price of items categorized as "Clothing".
- **Sales Data (Sheet: Sales Data):** Find the total sales in the "West" region.

5. SUMIFS()

- **Expense Tracker (Sheet: Expense Tracker):** Find the total amount spent on "Rent" in months where the expense exceeded 1000.
- **Sales Data (Sheet: Sales Data):** Calculate the total sales amount for "Electronics" in the "North" region.
- **Employee Data (Sheet: Employee Data):** Calculate the total salary of employees in the "IT" department with a performance score above 4.0.

- **Inventory Management (Sheet: Inventory Management):** Find the total sales price of items in the "Home" category with stock levels above 10

6. COUNT()

- **Employee Data (Sheet: Employee Data):** Count how many employees are listed in the data.
- **Student Grades (Sheet: Student Grades):** Count how many students are listed in the data.
- **Sales Data (Sheet: Sales Data):** Count how many sales transactions were recorded.
- **Expense Tracker (Sheet: Expense Tracker):** Count how many expenses were recorded for the "Groceries" category

7. COUNTIF()

- **Employee Data (Sheet: Employee Data):** Count how many employees are from the "IT" department.
- **Student Grades (Sheet: Student Grades):** Count how many students passed the exam.
- **Student Grades (Sheet: Student Grades):** Count how many students scored above 70 in "Math".
- **Sales Data (Sheet: Sales Data):** Count how many sales were made in the "Clothing" category.

8. COUNTIFS()

- **Employee Data (Sheet: Employee Data):** Count how many employees in the "HR" department have a salary greater than 50000.
- **Sales Data (Sheet: Sales Data):** Count how many sales transactions occurred in the "Electronics" category and "North" region.
- **Inventory Management (Sheet: Inventory Management):** Count how many items in the "Electronics" category have stock levels greater than 10 and sales prices above 800.
- **Expense Tracker (Sheet: Expense Tracker):** Count how many months had "Rent" expenses over 1000

9. AVERAGE()

- **Sales Data (Sheet: Sales Data):** Calculate the average sales amount for all products.
- **Employee Data (Sheet: Employee Data):** Find the average salary of all employees.
- **Inventory Management (Sheet: Inventory Management):** Calculate the average purchase price of all items.
- **Sales Data (Sheet: Sales Data):** Find the average sales amount for all regions combined.

10. AVERAGEIF()

- **Sales Data (Sheet: Sales Data):** Find the average sales amount for the "Electronics" category.
- **Expense Tracker (Sheet: Expense Tracker):** Calculate the average amount spent on "Groceries".
- **Employee Data (Sheet: Employee Data):** Find the average salary of employees in the "HR" department.
- **Inventory Management (Sheet: Inventory Management):** Calculate the average sales price of items in the "Furniture" category

11. AVERAGEIFS()

- **Sales Data (Sheet: Sales Data):** Find the average sales amount for "Electronics" in the "North" region.

- **Inventory Management (Sheet: Inventory Management):** Find the average sales price of items in the "Electronics" category with stock levels greater than 5.
- **Expense Tracker (Sheet: Expense Tracker):** Find the average amount spent on "Utilities" in months where the amount exceeded 200.
- **Sales Data (Sheet: Sales Data):** Calculate the average sales amount for the "Home" category in the "South" region.

12. AND()

- **Employee Data (Sheet: Employee Data):** Use AND() to check if employees have a salary greater than 50000 **and** a performance score greater than 3.5. Return "Yes" if both conditions are met, otherwise return "No".
- **Student Grades (Sheet: Student Grades):** Use AND() to check if a student has scored greater than 70 in both "Math" and "Science" (assume scores for both subjects are available). Return "Yes" if true, otherwise "No".
- **Expense Tracker (Sheet: Expense Tracker):** Use AND() to check if the expense category is "Groceries" **and** the amount is greater than 300. Return "True" if both conditions are met, otherwise "False".
- **Inventory Management (Sheet: Inventory Management):** Use AND() to check if the stock level of an item is greater than 20 **and** its sales price is above 50. Return "Yes" if both conditions are true, otherwise return "No".