

EXP-9

BASIC STATISTICS-MIN, MODE, MEDIAN, STANDARD DEVIATION, VARIANCE.

Questions 1:

Employee	Name	Department	Salary	Age	Years of Experience	Performance Rating
101	John Doe	Marketing	60000	28	5	8
102	Jane Smith	IT	80000	35	10	9
103	Alice Johnson	HR	72000	30	4	7
104	Bob Brown	Marketing	62000	29	6	6
105	Charlie Davis	IT	95000	40	12	10
106	Eve White	Finance	70000	32	8	8
107	Fiona Green	IT	85000	31	9	7
108	Greg Black	Sales	75000	36	7	9
109	Hannah Blue	Marketing	64000	27	3	8
110	Ian Red	Finance	77000	33	11	9

MIN Function:

a. Use the MIN function to find the minimum salary in the dataset.

=MIN(F2:F12)

b. Find the minimum age of the employees.

=MIN(F2:F12)

2. MODE Function:

a. Use the MODE function to determine the most frequent Performance Rating in the dataset.

=MODE(H2:H12)

b. Use the MODE function to find the most common Years of Experience among the employees.

=MODE(G2:G12)

3. MEDIAN Function:

a. Calculate the Median Salary for all employees.

=MEDIAN(E2:E12)

B. Find the Median Age of the employees.

=MEDIAN(F2:F12)

4. Standard Deviation (STDEV):

a. Use the STDEV function to calculate the standard deviation of the Salaries.

=STDEV(E2:E12)

b. Find the standard deviation of the Performance Ratings of the employees.

=STDEV(H2:H12)

5. Variance (VAR):

a. Use the VAR function to calculate the variance of the Years of Experience in the dataset

=VAR(G2:G12)

b. Find the variance of the Ages of the employees.

=VAR(F2:F12)

Summary Statistics:

Provide a summary of the following statistics for the Performance Rating:

- Minimum

=MIN(H2:H12)

- Maximum

=MAX(H2:H12)

- Mode

=MODE(H2:H12)

- Median

=MEDIAN(H2:H12)

- Standard Deviation

=STDEV(H2:H12)

- Variance

=VAR(H2:H12)

ASSIGNMENT 2:

Dataset: Monthly Sales Data (Units Sold)	
Month	Units Sold
January	50
February	75
March	60
April	90
May	120
June	45
July	85
August	100
September	70
October	95
November	65
December	110

1. How do you find the minimum number of units sold in a month?

=MIN(C17:C28)

2. What is the median number of units sold?

=MEDIAN(C17:C28)

3. How do you calculate the mode of the units sold?

=MODE (C17:C28)

4. How do you calculate the standard deviation of units sold?

=STDEV (C17:C28)

5. How do you calculate the variance of the units sold?

=VAR (C17:C28)