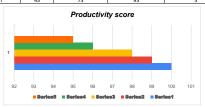
Employee Work Productivity Analysis

1. Top 5 Productive Employees: A. Use the SORT and FILTER functions to display the top 5 employees with the highest productivity scores. B. Create a bar chart to visualize the results.

			Hours_Work			
Employee_ID	Name	Department	ed	Tasks_Completed	Productivity_Score	Performance_Rating
107	Rahul	IT	50	80	100	5
125	Tanya	IT	47	79	99	5
115	Rakesh	IT	48	78	98	5
123	Neeraj	Marketing	46	77	96	5
104	Pivo	IT	45	75	20	5



2. Department-Wise Productivity Consistency: A. Calculate the standard deviation of productivity scores within each department to assess consistency. B. Which department has the least variation in employee productivity scores within each department to assess consistency.

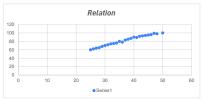
Department	StdDevp of Productivity Sco
Finance	2.9580398
HR	3.5440090
IT	4.7074409
Marketing	
Sales	4.3748015
Grand Total	12.412896

3. Productivity Efficiency Index (PEI): A. Create a new column PEI (Productivity Efficiency Index) using this formula: B.Rank all employees based on PEI and display the top 3. C.Use RANK, SORT, or filters in Excel or Google Sheets

							Productiv
							ity
			Hours_Work				Efficiency
Employee_ID	Name	Department	ed	Tasks_Completed	Productivity_Score	Performance_Rating	Index
125	Tanya	IT	47	79	99	5	10.53191
123	Neeraj	Marketing	46	77	96	5	10.43478
115	Rakesh	IT	48	78	98	5	10.20833

4. Correlation Analysis: Question 1: Determine which has a stronger influence on Performance Rating: Hours_Worked or Tasks_Completed? B. Use correlation coefficients to compare both relationships.

Question 2: Work Hours and Productivity Correlation A.Create a scatter plot to visualize the relationship between Hours_Worked and Productivity_Score B.Identify if there is a positive or



ositive correlation

5. Underutilized High Performers: Question: Identify employees who A. Have a Performance Rating ≥ 4, AND Worked less than the average hours of all employees.

							Productiv	
							ity	
			Hours_Work				Efficiency	
Employee_ID	Name	Department	ed	Tasks_Completed	Productivity_Score	Performance_Rating	Index	logical
125	Tanya	IT	47	79	99	5	10.53191	no
124	Akash	Sales	34	48	76	3	6.705882	yes
123	Neeraj	Marketing	46	77	96	5	10.43478	no
122	Jyoti	HR	32	44	74	3	6.9375	yes
121	Mohan	Finance	27	34	64	2	4.740741	yes
120	Suman	Sales	36	52	78	4	8.666667	yes
119	Anjali	IT	39	60	87	4	8.923077	yes
118	Arjun	Marketing	43	75	93	5	10.81395	no
117	Sanjay	HR	31	42	72	3	6.967742	yes
116	Kavita	Finance	26	32	62	2	4.769231	yes
115	Rakesh	IT	48	78	98	5	10.20833	no
114	Deepak	Sales	41	66	89	4	8.682927	no
113	Varun	HR	33	45	75	3	6.818182	yes
112	Pooja	Marketing	44	73	94	5	10.68182	no
111	Amit	Finance	29	38	68	3	7.034483	yes

110	Sneha	Sales	37	55	83	4	8.972973	yes
109	Kunal	Marketing	42	70	92	5	10.95238	no
108	Priya	HR	28	35	65	3	6.964286	yes
107	Rahul	IT	50	80	100	5	10	no
106	Neha	Sales	38	58	85	4	8.947368	yes
105	Prakash	Finance	25	30	60	2	4.8	yes
104	Riya	IT	45	75	95	5	10.55556	no
103	Suresh	HR	30	40	70	3	7	yes
102	Meera	Marketing	40	65	90	5	11.25	no
101	Aakash	Sales	35	50	80	4	9.142857	yes

average = 37

6. Tasks per Hour Efficiency: Question: A. Add a column Tasks per Hour: B. Who is the most task-efficient employee based on this metric C. Compare their performance score and rating

125	1.411765
125	1.680851 1.411765
124	1.411765
123 Necroj Marketing 46 77 96 5 10.43478 122 Jyoti HR 32 44 74 3 6.9375 121 Mohan Finance 27 34 64 2 4.740741 120 Suman Sales 36 52 78 4 8.666667 119 Anjali IT 39 60 87 4 8.23077 118 Arjun Marketing 43 75 93 5 10.83395 117 Sanjay HR 31 42 72 3 6.957742 116 Kavita Finance 26 32 62 2 4.769331 115 Rakesh IT 48 78 98 5 10.2833 114 Deepak Sales 41 66 89 4 8.862907 113 Varun HR 33 45 75 5 3 6.81812 112 Pooja Marketing 44 73 94 5 10.68182 111 Arnt Finance 29 38 68 3 7.03483 110 Sneha Sales 37 55 83 4 8.77973 109 Kunal Marketing 42 70 92 5 10.95328 108 Priya HR 28 35 65 3 6.64266	
122	1.673913
121 Mohan Finance 27 34 64 2 4.740741 120 Suman Sales 36 52 78 4 8.666667 119 Anjali IT 39 60 87 4 8.923077 118 Afjun Marketing 43 75 93 5 10.81395 117 Sanjay HR 31 42 72 3 6.967742 116 Kavita Finance 26 32 62 2 4.769231 115 Rakesh IT 48 78 98 5 10.20833 114 Deepak Sales 41 66 89 4 8.682927 113 Varun HR 33 45 75 3 6.813122 111 Pooja Marketing 44 73 94 5 10.68182 111 Annit Finance 29 38 68 3 7.03483 110 Sneha Sales 37 55 83 4 8.972973 109 Kunal Marketing 42 70 92 5 5 10.95238 108 Priya HR 28 35 65 3 6.646286	
120 Suman Sales 36 52 78 4 8.666667 119 Anjali IT 39 60 87 4 8.923077 118 Arjun Marketing 43 75 93 5 10.83395 117 Sanjay HR 31 42 72 3 6.957742 116 Kavita Finance 26 32 662 2 4.76231 115 Rakesh IT 48 78 98 5 10.2033 114 Deepalk Sales 41 66 89 4 8.662927 113 Varun HR 33 45 75 3 6.818182 112 Pooja Marketing 44 73 94 5 10.68182 111 Amit Finance 29 38 68 3 7.03483 110 Sineha Sales 37 55 83 4 8.797973 109 Kunal Marketing 42 70 92 5 1.059238 108 Priya HR 28 35 65 3 6.68286	1.375
119	1.259259
118	1.444444
117	1.538462
116	1.744186
115 Rakesh IT 48 78 98 5 10.20833 114 Deepak Sales 41 66 89 4 8.652927 113 Varun HR 33 45 75 3 6.818182 112 Pooja Marketing 44 73 94 5 10.68182 111 Amit Finance 29 38 68 3 7.03483 110 Sneha Sales 37 55 83 4 8.972973 109 Kunal Marketing 42 70 92 5 10.95238 108 Priya HR 28 35 65 3 6.664286	1.354839
114 Deepak Sales 41 66 89 4 8.682927 113 Varun HR 33 45 75 3 6.81812 112 Pooja Marketing 44 73 94 5 10.68182 111 Amt Finance 29 38 68 3 7.03483 110 Sneha Sales 37 55 83 4 8.77973 109 Kunal Marketing 42 70 92 5 10.95238 108 Priya HR 28 35 65 3 6.964286	1.230769
113 Varun HR 33 45 75 3 6.818182 112 Pooja Marketing 44 73 94 5 10.68182 111 Amit Finance 29 38 68 3 7.03483 110 Sneha Sales 37 55 83 4 8.972973 109 Kunal Marketing 42 70 92 5 10.9528 108 Priya HR 28 35 65 3 6.696286	1.625
112 Pooja Marketing 44 73 94 5 10.68182 111 Anut Finance 29 38 68 3 7.034483 110 Sneha Sales 37 55 83 4 8.972973 109 Kunal Marketing 42 70 92 5 10.95238 108 Priya HR 28 35 65 5 3 6.964286	1.609756
111 Amit Finance 29 38 68 3 7.034483 110 Sneha Sales 37 55 83 4 8.972973 109 Kunal Marketing 42 70 92 5 10.95238 108 Priya HR 28 35 65 3 6.964266	1.363636
110 Sneha Sales 37 55 83 4 8.972973 109 Kunal Marketing 42 70 92 5 1.055238 108 Priya HR 28 35 65 3 6.964286	1.659091
109 Kunal Marketing 42 70 92 5 10,95238 108 Priya HR 28 35 65 3 6,964286	1.310345
108 Priya HR 28 35 65 3 6.964286	1.486486
	1.666667
107 Rahul IT 50 80 100 5 10	1.25
	1.6
106 Neha Sales 38 58 85 4 8.947368	1.526316
105 Prakash Finance 25 30 60 2 4.8	1.2
104 Riya IT 45 75 95 5 10.55556	1.666667
103 Suresh HR 30 40 70 3 7	1.333333
102 Meera Marketing 40 65 90 5 11.25	1.625
101 Aakash Sales 35 50 80 4 9.142857	1.428571
	1.744186

Performance Score 93
Rating 5
Department Marketing