Hiring Process Analytics

The project was designed to conduct comprehensive data analytics on the hiring process within a company, , with the primary objective of gaining insights into various aspects such as gender distribution, salary analysis, departmental composition, and position tiers. By analyzing these factors, the project aimed to provide valuable insights into hiring patterns and organizational dynamics.

Approach

I have used Microsoft Excel for its extensive data analysis functionalities, including pivot tables, charts, and statistical functions, It facilitated in-depth exploration and visualization of the hiring data, enabling a thorough understanding of the underlying trends and patterns.

A dataset containing relevant information on hires, including gender, salary, department, and position, was obtained

Insights

Analysis of People hired and rejected gender wise

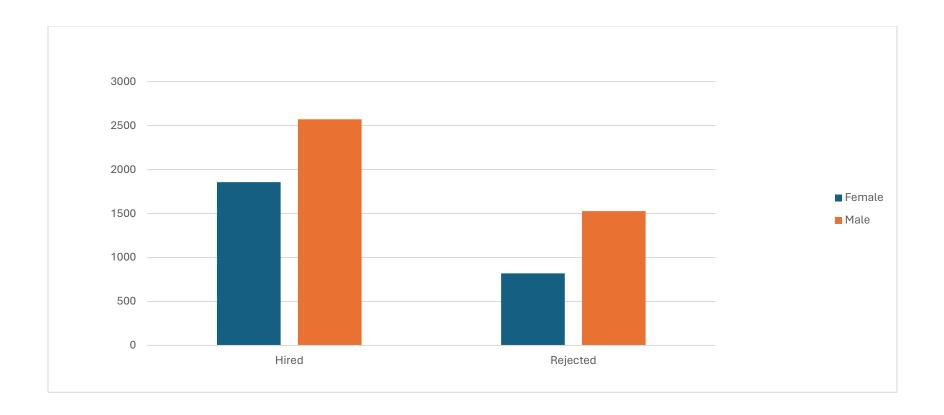
Analysis of salary department Wise and overall average

A) Hiring Analysis -

The hiring process involves bringing new individuals into the organization for various roles.

Your Task: Determine the gender distribution of hires. How many males and females have been hired by the company?

Count of event_name	Column Labels			
Row Labels	Female		Male	Grand Total
Hired		1856	2572	4428
Rejected		819	1527	2346
Grand Total		2675	4099	6774



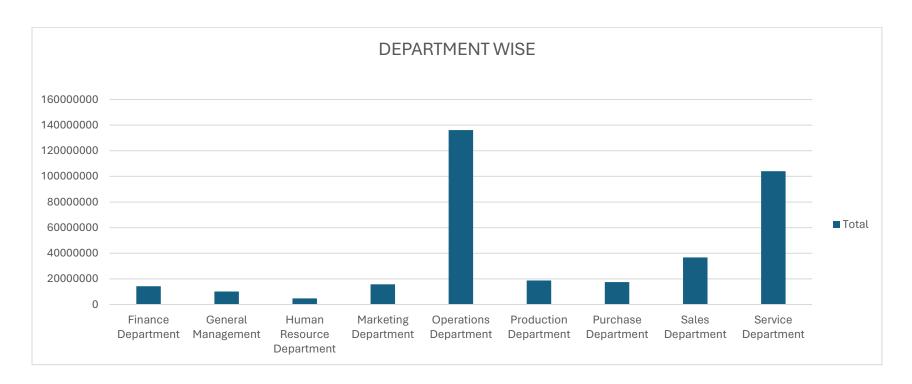
B) Salary Analysis -

The average salary is calculated by adding up the salaries of a group of employees and then dividing the total by the number of employees.

Your Task: What is the average salary offered by this company? Use Excel functions to calculate this.

Overall Average Salary	Department Wise Salary		
49978.01493	Row Labels	Sum of Offered Salary	
	Finance Department		14292866
	General Management		10100200

Human Resource	
Department	4753221
Marketing Department	15759229
Operations Department	136198403
Production Department	18790424
Purchase Department	17504070
Sales Department	36749608
Service Department	104044412
Grand Total	358192433



C) Salary Distribution

Class intervals represent ranges of values, in this case, salary ranges. The class interval is the difference between the upper and lower limits of a class.

Your Task: Create class intervals for the salaries in the company. This will help you understand the salary distribution

ſ	Lower	Upper	Freq	
	0	10000	676	
	10001	20000	730	
	20001	30000	708	
	30001	40000	710	
	40001	50000	781	
	50001	60000	748	
	60001	70000	697	
	70001	80000	733	
	80001	90000	708	
	90001	100000	659	
	100001	110000	0	
	110001	120000	0	
	120001	130000	0	
	130001	140000	0	
	140001	150000	0	
	150001	160000	0	
	160001	170000	0	
	170001	180000	0	
	180001	190000	0	
	190001	200000	0	
	200001	210000	0	
	210001	220000	0	
	220001	230000	0	
	230001	240000	0	
	240001	250000	0	
	250001	260000	0	
	260001	270000	0	
	270001	280000	0	
	280001	290000	0	
	290001	300000	1	
	300001	310000	0	
L	310001	320000	0	

320001	330000	0
330001	340000	0
340001	350000	0
350001	360000	0
360001	370000	0
370001	380000	0
380001	390000	0
390001	400000	1

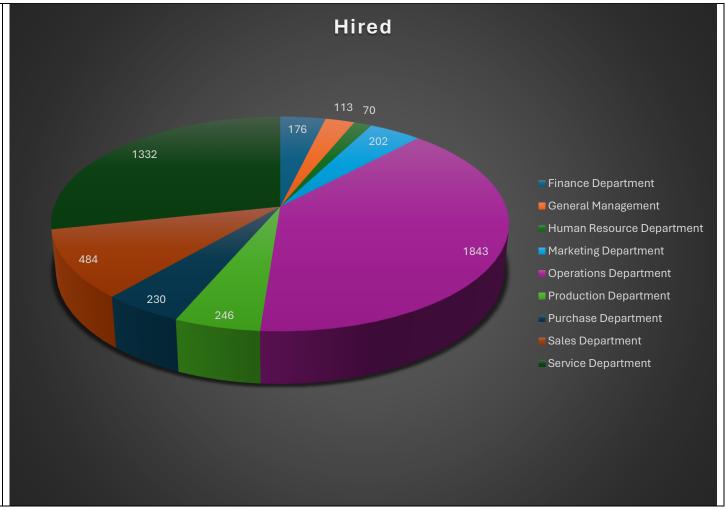


D) Departmental Analysis

Visualizing data through charts and plots is a crucial part of data analysis.

Your Task: Use a pie chart, bar graph, or any other suitable visualization to show the proportion of people working in different departments.

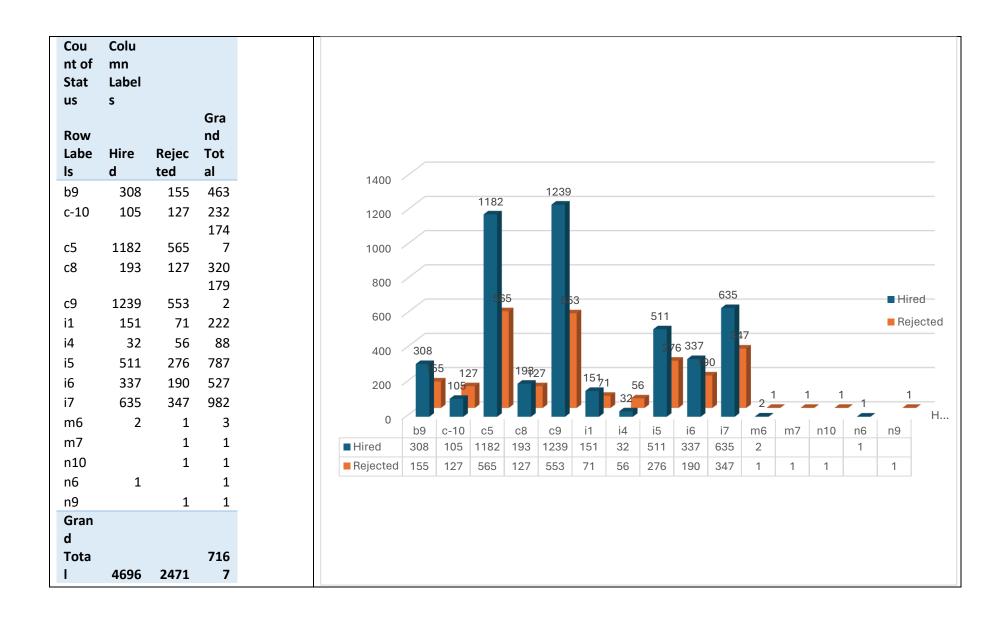
Count of Status	Column Labels	
Row Labels	Hired	Grand Total
Finance	ппец	TOLAI
	176	176
Department General	176	176
	112	112
Management	113	113
Human		
Resource	70	70
Department	70	70
Marketing	202	202
Department	202	202
Operations	1843	1843
Department Production	1043	1045
Department	246	246
Purchase	240	240
Department	230	230
Sales	230	230
Department	484	484
Service	707	707
Department	1332	1332
Department	1332	1332
Grand Total	4696	4696



5) Position Tier Analysis

Different positions within a company often have different tiers or levels.

Your Task: Use a chart or graph to represent the different position tiers within the company. This will help you understand the distribution of positions across different tiers.



Outliers Analysis

Outliers
1) detection

Q1		25460.5		
Q3		74418.5		
IQR		48958		
LOWEST	-47976.5		HIGHEST	147855.5

Number of

2) outliers

NORMAL VALUES 7164

OUTLIERS 3

Outliers Removal

			VALUES AFTER
Offered Salary	Outliers	CLEANED	OUTLIERS
5655	3 FALSE	56553	100
2207	5 FALSE	22075	800
7006	9 FALSE	70069	1007
320	7 FALSE	3207	1022
2966	8 FALSE	29668	1027
6990	4 FALSE	69904	1035
1175	8 FALSE	11758	1038

15156	FALSE	15156	1042
49515	FALSE	49515	1074
26990	FALSE	26990	1079
200000	FALSE	0	1105
86787	FALSE	86787	1141
2308	FALSE	2308	1155
56688	FALSE	56688	1177
81757	FALSE	81757	1185
15134	FALSE	15134	1188
100	FALSE	100	1210
73579	FALSE	73579	1212
50351	FALSE	50351	1216
38462	FALSE	38462	1251
82510	FALSE	82510	1258
52554	FALSE	52554	1262
3423	FALSE	3423	1282
88744	FALSE	88744	1304
70979	FALSE	70979	1326
99574	FALSE	99574	1346
52176	FALSE	52176	1351
61432	FALSE	61432	1352
87884	FALSE	87884	1362
56229	FALSE	56229	1386
37947	FALSE	37947	1389
88057	FALSE	88057	1415
72843	FALSE	72843	1422
84513	FALSE	84513	1456
23129	FALSE	23129	1458
73304	FALSE	73304	1459
85176	FALSE	85176	1460
31854	FALSE	31854	1461
11970	FALSE	11970	1469
2085	FALSE	2085	1487
800	FALSE	800	1513
41402	FALSE	41402	1516
48028	FALSE	48028	1519
22832	FALSE	22832	1524

5664	FALSE	5664	1531	
89786	FALSE	89786	1536	
51645	FALSE	51645	1537	
60294	FALSE	60294	1611	
53465	FALSE	53465	1619	
52285	FALSE	52285	1632	
2013	FALSE	2013	1635	
98622	FALSE	98622	1646	
68666	FALSE	68666	1659	
67434	FALSE	67434	1666	
12624	FALSE	12624	1676	
68466	FALSE	68466	1686	
27418	FALSE	27418	1710	
9009	FALSE	9009	1731	
40831	FALSE	40831	1736	
85140	FALSE	85140	1740	

Statstical Analysis:

Offered Salary	VALUES AFTER OUTLIERS	Before		
56553	100	Removing		
22075	800	Outliers]	
70069	1007			
3207	1022		Mean	49978.01493
29668	1027		Median	49625
69904	1035		Mode	72843
11758	1038		STD	28851.05436
15156	1042		Standard	
49515	1074		Variance	832383337.7
26990	1079		Range	399900
200000	1105		Min	100
86787	1141		Max	400000
2308	1155		count	7167

56688	1177				
81757	1185	After Removing			
15134	1188	Outliers			
100	1210				
73579	1212		Mean	49873.31561	
50351	1216		median	49614.5	
38462	1251		Mode	20666	
82510	1258		STD	28350.45112	
52554	1262		Standard		
3423	1282		Variance	803748078.7	
88744	1304		Range	99867	
70979	1326		Min	100	
99574	1346		Max	99967	
52176	1351		Count	7164	
61432	1352				
87884	1362				
56229	1386				
37947	1389				
88057	1415				
72843	1422				
84513	1456				
23129	1458				
73304	1459				
85176	1460				
31854	1461				
11970	1469				
2085	1487				
800	1513				
41402	1516				
48028	1519				
22832	1524				
5664	1531				
89786	1536				
51645	1537				
60294	1611				
53465	1619				
52285	1632				

2013	1635	
98622	1646	
68666	1659	
67434	1666	
12624	1676	
68466	1686	
27418	1710	
9009	1731	
40831	1736	
85140	1740	
1141	1752	
39485	1763	
84675	1770	
33631	1808	
45288	1817	
46980	1887	
25621	1889	
6472	1898	
25239	1911	
94869	1917	