

PROJECT DEVELOPMENT PHASE

MODEL PERFORMANCE TEST

Date	18 November 2022
Team ID	PNT2022TMID27015
Project Name	Corporate Employee Attrition Analytics
Maximum Marks	10 Marks

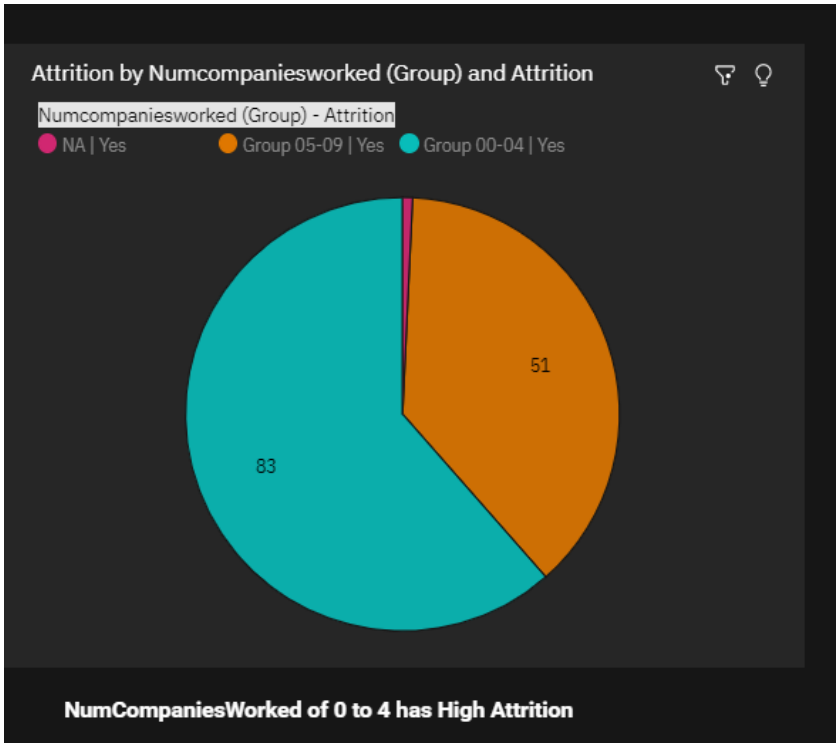
S. No.	Parameter	Screenshot / Values
1.	Dashboard design	<div>No of Visualizations / Graphs - 18</div> <div><div><div><div><div><div>Employee Attrition</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><div><div><div><div></div></div></div><div><div><div></div></div></div></div><div>16.1%</div><div>83.9%</div></div></div></div><div><div>Min % salaryhike</div><div>11</div><div>Percentsalaryhike</div></div><div><div>Monthlyincome Average</div><div>65K</div><div>Monthlyincome</div></div><div><div>EmployeeCount</div><div>4.41K</div><div>Employeeid</div></div><div><div>No of Departments</div><div>3</div><div>Department</div></div></div><div><div><div>Attrition by Joblevel</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><div><div>No 1</div><div>1,377</div></div><div><div>No 3</div><div>1,317</div></div><div><div>No 5</div><div>267</div></div><div><div>No 2</div><div>150</div></div><div><div>Yes 2</div><div>182</div></div><div><div>Yes 4</div><div>285</div></div><div><div>Yes 1</div><div>56</div></div><div><div>Yes 3</div><div>27</div></div></div><div>Attrition (Count)</div></div></div><div><div><div>Attrition by Businesstravel</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><div><div>Non-Travel No</div><div>414</div></div><div><div>Non-Travel Yes</div><div>36</div></div><div><div>Travel_Frequently No</div><div>624</div></div><div><div>Travel_Frequently Yes</div><div>207</div></div><div><div>Travel_Rarely No</div><div>2,662</div></div><div><div>Travel_Rarely Yes</div><div>468</div></div></div><div>Attrition (Count)</div></div></div></div></div>

		<div><div><div><div>Attrition by Department</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><table><thead><tr><th>Department</th><th>Attrition (Count)</th></tr></thead><tbody><tr><td>Human Resources No</td><td>3.6%</td></tr><tr><td>Human Resources Yes</td><td>2%</td></tr><tr><td>Research & Development No</td><td>45.7%</td></tr><tr><td>Research & Development Yes</td><td>43.7%</td></tr><tr><td>Sales No</td><td>30.7%</td></tr><tr><td>Sales Yes</td><td>38.3%</td></tr></tbody></table></div></div><div><div>Attrition by Jobrole</div><div><div>Jobrole</div><div><div>Healthcare Representative</div><div>Human Resources</div><div>Laboratory Technician</div><div>Manager</div><div>Manufacturing</div><div>Research & Development</div><div>Sales Executive</div><div>Sales Representative</div></div></div><div><table><thead><tr><th>Jobrole</th><th>Attrition (Count)</th></tr></thead><tbody><tr><td>Healthcare Representative</td><td>1,767</td></tr><tr><td>Human Resources</td><td>802</td></tr><tr><td>Laboratory Technician</td><td>1,050</td></tr><tr><td>Manager</td><td>1,767</td></tr><tr><td>Manufacturing</td><td>802</td></tr><tr><td>Research & Development</td><td>1,050</td></tr><tr><td>Sales Executive</td><td>1,767</td></tr><tr><td>Sales Representative</td><td>802</td></tr></tbody></table></div></div></div><div><div>Attrition by Educationfield</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><table><thead><tr><th>Educationfield</th><th>Attrition (Count)</th></tr></thead><tbody><tr><td>Human Resources</td><td>1,767</td></tr><tr><td>Life Sciences</td><td>802</td></tr><tr><td>Marketing</td><td>1,050</td></tr><tr><td>Medical</td><td>1,767</td></tr><tr><td>Other</td><td>802</td></tr><tr><td>Technical</td><td>1,050</td></tr></tbody></table></div></div><div><div>Attrition by Maritalstatus</div><div><div>Maritalstatus - Attrition</div><div><div>Divorced Yes</div><div>Married Yes</div><div>Single Yes</div><div>Divorced No</div><div>Single No</div><div>Married No</div></div></div><div><table><thead><tr><th>Maritalstatus - Attrition</th><th>Count</th></tr></thead><tbody><tr><td>Divorced Yes</td><td>1,767</td></tr><tr><td>Married Yes</td><td>802</td></tr><tr><td>Single Yes</td><td>1,050</td></tr><tr><td>Divorced No</td><td>1,767</td></tr><tr><td>Single No</td><td>802</td></tr><tr><td>Married No</td><td>1,050</td></tr></tbody></table></div></div></div> <div><div>Attrition by Salary Hike %</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><table><thead><tr><th>Percentsalaryhike</th><th>Attrition (Count)</th></tr></thead><tbody><tr><td>25</td><td>39</td></tr><tr><td>24</td><td>54</td></tr><tr><td>23</td><td>69</td></tr><tr><td>22</td><td>118</td></tr><tr><td>21</td><td>117</td></tr><tr><td>20</td><td>118</td></tr><tr><td>19</td><td>22</td></tr><tr><td>18</td><td>156</td></tr><tr><td>17</td><td>228</td></tr><tr><td>16</td><td>201</td></tr><tr><td>15</td><td>204</td></tr><tr><td>14</td><td>43</td></tr><tr><td>13</td><td>240</td></tr><tr><td>12</td><td>518</td></tr><tr><td>11</td><td>525</td></tr><tr><td>10</td><td>504</td></tr><tr><td>9</td><td>90</td></tr><tr><td>8</td><td>640</td></tr></tbody></table></div></div> <div><div>Attrition by Experience</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><table><thead><tr><th>Experience Group</th><th>Attrition (Count)</th></tr></thead><tbody><tr><td>Group 00-09</td><td>1,690</td></tr><tr><td>Group 10-19</td><td>1,347</td></tr><tr><td>Group 20-29</td><td>911</td></tr><tr><td>Group 30-39</td><td>186</td></tr></tbody></table></div></div> <div><div>Attrition by Monthlyincome</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><table><thead><tr><th>Monthlyincome (Group) - Attrition</th><th>Count</th></tr></thead><tbody><tr><td>less than 4,000</td><td>43.5%</td></tr><tr><td>4,000 to 4,999</td><td>43.9%</td></tr><tr><td>5,000 to 5,999</td><td>26.4%</td></tr><tr><td>6,000 to 6,999</td><td>30.8%</td></tr><tr><td>7,000 to 7,999</td><td>11.8%</td></tr><tr><td>8,000 to 8,999</td><td>8.9%</td></tr><tr><td>9,000 to 9,999</td><td>4.8%</td></tr><tr><td>10,000 to 10,999</td><td>4.6%</td></tr><tr><td>11,000 to 11,999</td><td>8.5%</td></tr><tr><td>12,000 and above</td><td>6.8%</td></tr></tbody></table></div></div> <div><div>Attrition by Numcompaniesworked</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><table><thead><tr><th>Numcompaniesworked</th><th>Attrition (Count)</th></tr></thead><tbody><tr><td>0 No</td><td>1,200</td></tr><tr><td>2 No</td><td>1,000</td></tr><tr><td>4 No</td><td>800</td></tr><tr><td>6 No</td><td>600</td></tr><tr><td>8 No</td><td>400</td></tr></tbody></table></div></div> <tr><td>2.</td><td>Data Responsiveness</td><td>Positive</td></tr> <tr><td>3.</td><td>Amount Data to Rendered</td><td>Three data were rendered: Employee Survey, General Data, Manager survey.<div><div>Tables</div><div><div>New table +</div><div><div><div><div><input type="checkbox"/></div><div>Name</div></div><div><div><input type="checkbox"/></div><div>EMPLOYEE_SURVEY</div></div><div><div><input type="checkbox"/></div><div>GENERALDATA</div></div><div><div><input type="checkbox"/></div><div>MANAGER_SURVEY</div></div></div><div><div><div>Schema</div><div>ZXZ23398</div></div><div><div>ZXZ23398</div></div><div><div>ZXZ23398</div></div><div><div>ZXZ23398</div></div></div><div><div><div>Properties</div><div>...</div></div><div><div>...</div></div><div><div>...</div></div><div><div>...</div></div></div></div></div></div></td></tr>	Department	Attrition (Count)	Human Resources No	3.6%	Human Resources Yes	2%	Research & Development No	45.7%	Research & Development Yes	43.7%	Sales No	30.7%	Sales Yes	38.3%	Jobrole	Attrition (Count)	Healthcare Representative	1,767	Human Resources	802	Laboratory Technician	1,050	Manager	1,767	Manufacturing	802	Research & Development	1,050	Sales Executive	1,767	Sales Representative	802	Educationfield	Attrition (Count)	Human Resources	1,767	Life Sciences	802	Marketing	1,050	Medical	1,767	Other	802	Technical	1,050	Maritalstatus - Attrition	Count	Divorced Yes	1,767	Married Yes	802	Single Yes	1,050	Divorced No	1,767	Single No	802	Married No	1,050	Percentsalaryhike	Attrition (Count)	25	39	24	54	23	69	22	118	21	117	20	118	19	22	18	156	17	228	16	201	15	204	14	43	13	240	12	518	11	525	10	504	9	90	8	640	Experience Group	Attrition (Count)	Group 00-09	1,690	Group 10-19	1,347	Group 20-29	911	Group 30-39	186	Monthlyincome (Group) - Attrition	Count	less than 4,000	43.5%	4,000 to 4,999	43.9%	5,000 to 5,999	26.4%	6,000 to 6,999	30.8%	7,000 to 7,999	11.8%	8,000 to 8,999	8.9%	9,000 to 9,999	4.8%	10,000 to 10,999	4.6%	11,000 to 11,999	8.5%	12,000 and above	6.8%	Numcompaniesworked	Attrition (Count)	0 No	1,200	2 No	1,000	4 No	800	6 No	600	8 No	400	2.	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4.	Utilization of Data Filters	<div><div>DashBoard</div><div>Apply Filter Excluding NA in Stacked Bar [Attrition By TotalWorkingYears]</div><div><div><div>Attrition by Totalworkingyears</div><div><div>Attrition</div><div><div>No</div><div>Yes</div></div></div><div><div>Totalworkingyears (Group)</div><div><div>Group 00-09</div><div>Group 10-19</div><div>Group 20-29</div><div>Group 30-39</div></div><div><div>1,690</div><div>469</div><div>1,347</div><div>186</div><div>511</div><div>39</div><div>144</div></div><div>Attrition (Count)</div></div></div></div><div><div>Report</div><div>Used Attrition Yes filter in List [Analysis of total working years by attrition and Gender]</div><div><table><tr><th>Attrition</th><th>EmployeeCount</th><th>Totalworkingyears (Group)</th><th>Gender</th></tr><tr><td>Yes</td><td>176</td><td>Group 00-09</td><td>Female</td></tr><tr><td>Yes</td><td>293</td><td>Group 00-09</td><td>Male</td></tr><tr><td>Yes</td><td>72</td><td>Group 10-19</td><td>Female</td></tr><tr><td>Yes</td><td>114</td><td>Group 10-19</td><td>Male</td></tr><tr><td>Yes</td><td>12</td><td>Group 20-29</td><td>Female</td></tr><tr><td>Yes</td><td>27</td><td>Group 20-29</td><td>Male</td></tr><tr><td>Yes</td><td>9</td><td>Group 30-39</td><td>Female</td></tr><tr><td>Yes</td><td>6</td><td>Group 30-39</td><td>Male</td></tr><tr><td>Yes</td><td>1</td><td>NA</td><td>Female</td></tr><tr><td>Yes</td><td>1</td><td>NA</td><td>Male</td></tr></table></div></div></div>	Attrition	EmployeeCount	Totalworkingyears (Group)	Gender	Yes	176	Group 00-09	Female	Yes	293	Group 00-09	Male	Yes	72	Group 10-19	Female	Yes	114	Group 10-19	Male	Yes	12	Group 20-29	Female	Yes	27	Group 20-29	Male	Yes	9	Group 30-39	Female	Yes	6	Group 30-39	Male	Yes	1	NA	Female	Yes	1	NA	Male
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Story

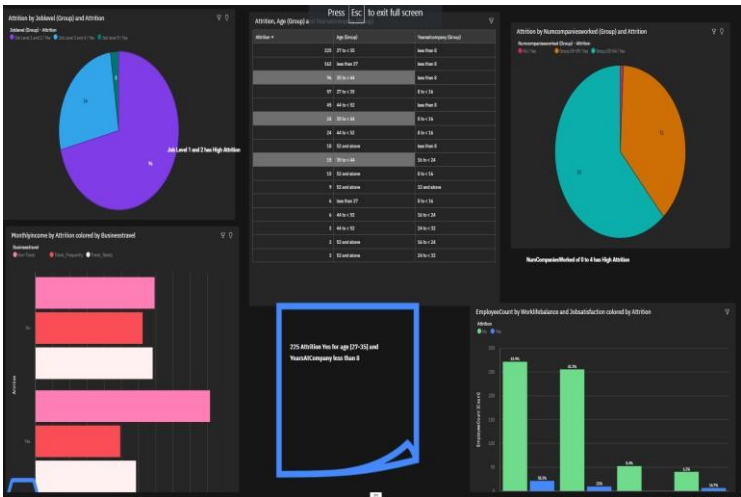
Apply Attrition Yes in Attrition by companies worked



5.

Effective
User Story

No of Scene Added – 5 Scenes



6.	Descriptive Reports	<div>No of Visulizations / Graphs - 4</div> <div><div><div>Attrition Analysis Report</div><div><div>Attrition of Department</div><table><tr><th>Attrition</th><th>Department</th><th>Count</th><th>Percentage</th></tr><tr><td>Yes</td><td>Marketing</td><td>30</td><td>30.0%</td></tr><tr><td>Yes</td><td>Sales</td><td>22</td><td>22.2%</td></tr><tr><td>Yes</td><td>HR</td><td>10</td><td>10.0%</td></tr><tr><td>Yes</td><td>Finance</td><td>10</td><td>10.0%</td></tr><tr><td>Yes</td><td>IT</td><td>10</td><td>10.0%</td></tr><tr><td>Yes</td><td>Operations</td><td>10</td><td>10.0%</td></tr><tr><td>No</td><td>Marketing</td><td>70</td><td>70.0%</td></tr><tr><td>No</td><td>Sales</td><td>78</td><td>77.8%</td></tr><tr><td>No</td><td>HR</td><td>90</td><td>90.0%</td></tr><tr><td>No</td><td>Finance</td><td>90</td><td>90.0%</td></tr><tr><td>No</td><td>IT</td><td>90</td><td>90.0%</td></tr><tr><td>No</td><td>Operations</td><td>90</td><td>90.0%</td></tr></table></div><div>Cross Tab Analysis</div><table><tr><th></th><th>Yes</th><th>No</th><th>Total</th></tr><tr><td>Department</td><td>30</td><td>70</td><td>100</td></tr><tr><td>Gender</td><td>1,767</td><td>252</td><td>2,019</td></tr><tr><td>Single</td><td>1,000</td><td>300</td><td>1,300</td></tr><tr><td>Total</td><td>1,699</td><td>711</td><td>2,410</td></tr></table></div><div>Analysis of Total Working Years by attrition and Gender</div><table><tr><th>Attrition</th><th>EmployeeCount</th><th>TotalWorkingYears</th><th>Gender</th></tr><tr><td>Yes</td><td>275</td><td>Group 00-09</td><td>Female</td></tr><tr><td>No</td><td>280</td><td>Group 00-09</td><td>Male</td></tr><tr><td>No</td><td>72</td><td>Group 10-19</td><td>Female</td></tr><tr><td>No</td><td>124</td><td>Group 20-29</td><td>Male</td></tr></table></div> <div>Analysis of attrition by total working years</div>	Attrition	Department	Count	Percentage	Yes	Marketing	30	30.0%	Yes	Sales	22	22.2%	Yes	HR	10	10.0%	Yes	Finance	10	10.0%	Yes	IT	10	10.0%	Yes	Operations	10	10.0%	No	Marketing	70	70.0%	No	Sales	78	77.8%	No	HR	90	90.0%	No	Finance	90	90.0%	No	IT	90	90.0%	No	Operations	90	90.0%		Yes	No	Total	Department	30	70	100	Gender	1,767	252	2,019	Single	1,000	300	1,300	Total	1,699	711	2,410	Attrition	EmployeeCount	TotalWorkingYears	Gender	Yes	275	Group 00-09	Female	No	280	Group 00-09	Male	No	72	Group 10-19	Female	No	124	Group 20-29	Male
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