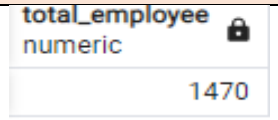
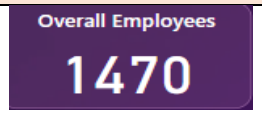
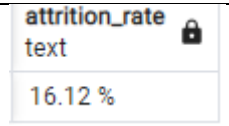
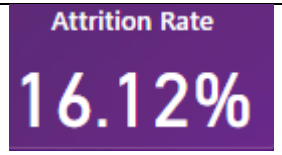
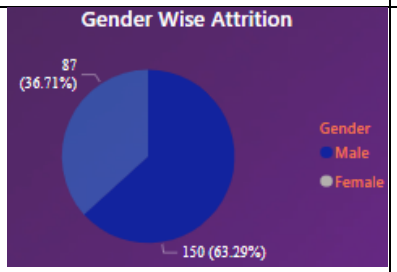
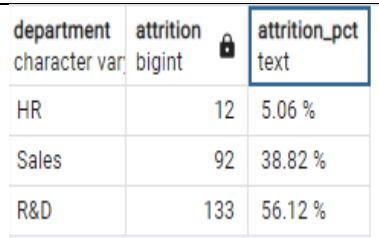
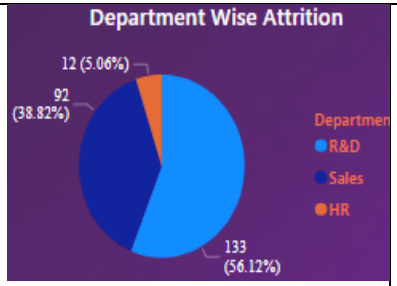
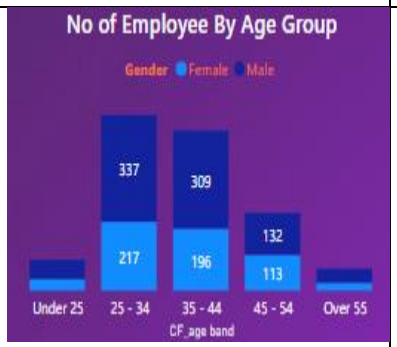
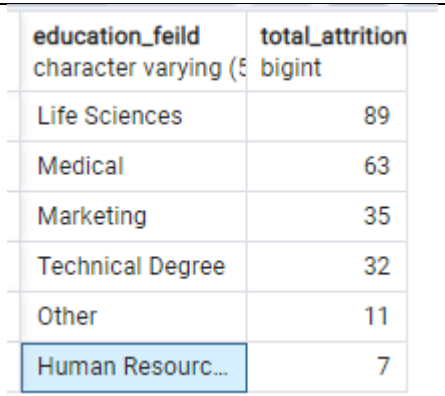
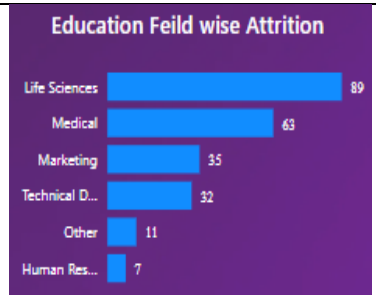
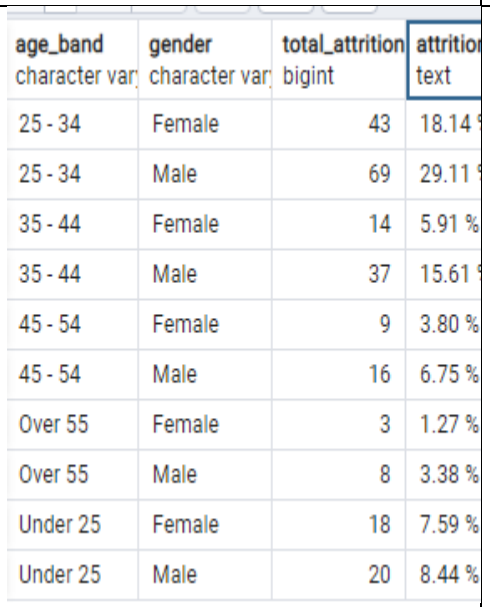
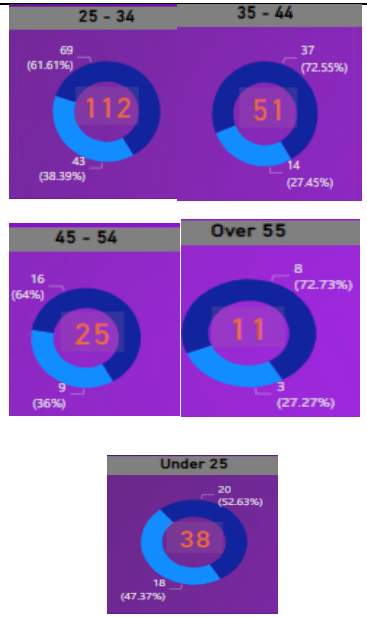
TEST DOCUMENT

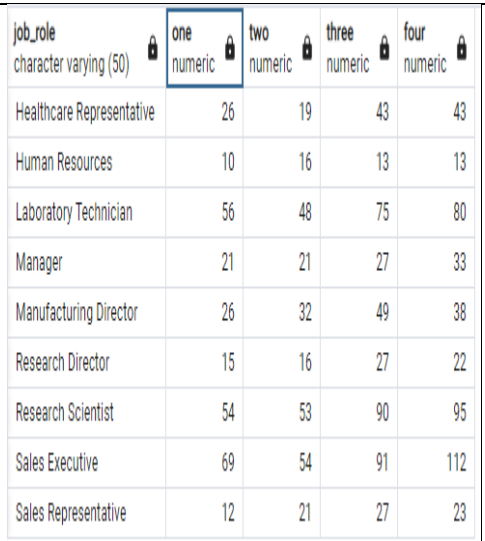
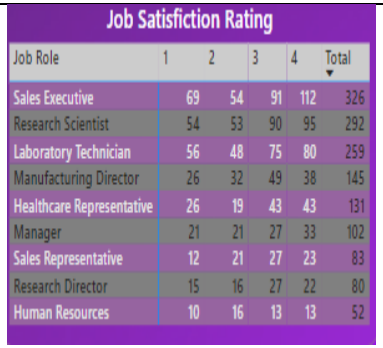
Name	Portfolio Project
Report Name	HR Analytics Dashboard
Developer Name	Md. Touhiduzzaman
Development Tool	**Power BI**

SL	Name	Query	SQL Result	Power BI Report	Result
1	KPI- Employee Count	SELECT COUNT(DISTINCT EMP_NO) AS TOTAL_EMPLOYEE FROM HRDATA;			**Exact Match**
2	KPI- Attrition Count	SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes';			**Exact Match**
3	KPI- Attrition Rate	SELECT ((SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes')/SUM(EMPLOYEE_COUNT)*100)::NUMERIC(10, 2) || ' %' FROM HRDATA;			**Exact Match**

4	KPI-Active Employee	SELECT SUM(EMPLOYEE_COUNT)-(SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes') AS ACTIVE_EMMPLOYEE FROM HRDATA;	active_emmployee numeric 1233		**Exact Match**
5	KPI-Average Age	SELECT ROUND(AVG(AGE)) AS AVERAGE_AGE FROM HRDATA;	average_age numeric 37		**Exact Match**
6	Attrition by Gender	SELECT GENDER, COUNT(ATTRITION) AS ATTRITION, ((CAST(COUNT(ATTRITION) AS FLOAT)/CAST((SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes') AS FLOAT))*100)::NUMERIC(10, 2) || ' %' AS ATTRITION_PCT FROM HRDATA WHERE ATTRITION = 'Yes' GROUP BY GENDER;	gender character var / attrition bigint / attrition_pct text Female 87 36.71 % Male 150 63.29 %		**Exact Match**

7	Depart-ment wise Attrition	SELECT DEPARTMENT, COUNT(ATTRITION) AS ATTRITION, ((CAST(COUNT(ATTRITION) AS FLOAT)/CAST((SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes') AS FLOAT))*100)::NUMERIC(10, 2) || ' %' AS ATTRITION_PCT FROM HRDATA WHERE ATTRITION = 'Yes' GROUP BY DEPARTMENT;	 department character var | attrition bigint | attrition_pct text HR | 12 | 5.06 % Sales | 92 | 38.82 % R&D | 133 | 56.12 %		**Exact Match**
8	No of Employee by Age Group	SELECT AGE_BAND, GENDER, SUM(EMPLOYEE_COUNT) AS TOTAL_EMPLOYEE FROM HRDATA GROUP BY AGE_BAND, GENDER ORDER BY AGE_BAND;	age_band character var | gender character var | sum numeric 25 - 34 | Male | 337 25 - 34 | Female | 217 35 - 44 | Female | 196 35 - 44 | Male | 309 45 - 54 | Female | 113 45 - 54 | Male | 132 Over 55 | Male | 44 Over 55 | Female | 25 Under 25 | Female | 37 Under 25 | Male | 60		**Exact Match**

9	Education Field wise Attrition	SELECT EDUCATION_FEILD, COUNT(ATTRITION) AS TOTAL_ATTRITION FROM HRDATA WHERE ATTRITION = 'Yes' GROUP BY EDUCATION_FEILD ORDER BY TOTAL_ATTRITION DESC;	 **education_feild** character varying (5 **total_attrition** bigint Life Sciences 89 Medical 63 Marketing 35 Technical Degree 32 Other 11 Human Resourc... 7		**Exact Match**
10	Attrition Rate by Gender for different Age group	SELECT AGE_BAND, GENDER, COUNT(ATTRITION) AS TOTAL_ATTRITION, ROUND((CAST(COUNT(ATTRITION) AS NUMERIC)/(SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes'))*100, 2) || '%' AS ATTRITION_PCT FROM HRDATA WHERE ATTRITION = 'Yes' GROUP BY AGE_BAND, GENDER ORDER BY AGE_BAND, GENDER;	 **age_band** character var **gender** character var **total_attrition** bigint **attritio** text 25 - 34 Female 43 18.14 % 25 - 34 Male 69 29.11 % 35 - 44 Female 14 5.91 % 35 - 44 Male 37 15.61 % 45 - 54 Female 9 3.80 % 45 - 54 Male 16 6.75 % Over 55 Female 3 1.27 % Over 55 Male 8 3.38 % Under 25 Female 18 7.59 % Under 25 Male 20 8.44 %		**Exact Match**

11	Job Satisfac-tion Rating	SELECT * FROM CROSSTAB('SELECT JOB_ROLE, JOB_SATISFICTION, SUM(EMPLOYEE_COUNT) FROM HRDATA GROUP BY JOB_ROLE, JOB_SATISFICTION ORDER BY JOB_ROLE, JOB_SATISFICTION') AS CT(JOB_ROLE VARCHAR(50), ONE NUMERIC, TWO NUMERIC, THREE NUMERIC, FOUR NUMERIC) ORDER BY JOB_ROLE;			**Exact Match**

job_role character varying (50)	one numeric	two numeric	three numeric	four numeric
Healthcare Representative	26	19	43	43
Human Resources	10	16	13	13
Laboratory Technician	56	48	75	80
Manager	21	21	27	33
Manufacturing Director	26	32	49	38
Research Director	15	16	27	22
Research Scientist	54	53	90	95
Sales Executive	69	54	91	112
Sales Representative	12	21	27	23

Job Satisfiction Rating

Job Role	1	2	3	4	Total
Sales Executive	69	54	91	112	326
Research Scientist	54	53	90	95	292
Laboratory Technician	56	48	75	80	259
Manufacturing Director	26	32	49	38	145
Healthcare Representative	26	19	43	43	131
Manager	21	21	27	33	102
Sales Representative	12	21	27	23	83
Research Director	15	16	27	22	80
Human Resources	10	16	13	13	52

Test Result:

Total Tests	11
Pass	11
Fail	00
Blocked	00
Not Executed	00