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;	total_employee numeric 1470	Overall Employees 1470	Exact Match
2	KPI- Attrition Count	SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes';	attrition bigint 237	237	Exact Match
3	KPI- Attrition Rate	SELECT ((SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes')/SUM(EMPLOYEE_COUNT)*100)::NUMERI C(10, 2) ' %' FROM HRDATA;	attrition_rate text 16.12 %	Attrition Rate 16.12%	Exact Match

5	KPI- Active Employee KPI- Average Age	SELECT SUM(EMPLOYEE_COUNT)-(SELECT COUNT(ATTRITION) FROM HRDATA WHERE ATTRITION = 'Yes') AS ACTIVE_EMMPLOYEE FROM HRDATA; SELECT ROUND(AVG(AGE)) AS AVERAGE_AGE FROM HRDATA;	active_emmployee a numeric 1233 Active Employees 1 2 3 3 Average Age numeric 37	Exact Match 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;	N	Exact Match

7	Depart-	SELECT DEPARTMENT, COUNT(ATTRITION) AS	department	attrition _	attrition_pct		C	epartm	ent Wise	e Attritio	n	Exact
	ment	ATTRITION,	character var	bigint	text		12 (5.0)6%) —				Match
	wise	((CAST(COUNT(ATTRITION) AS	HR	12	5.06 %		(38.82%)				epartmen	
	ELOAT\/CAST//SELECT COLINIT/ATTRITION	FLOAT)/CAST((SELECT COUNT(ATTRITION) FROM	Sales	92	38.82 %		●R&D Sales					
	Attrition	HRDATA WHERE ATTRITION = 'Yes') AS	R&D	133	56.12 %						HR	
		·							133 (56.1	12%)		
		FLOAT))*100)::NUMERIC(10, 2) ' %' AS										
		ATTRITION_PCT										
		FROM HRDATA										
		WHERE ATTRITION = 'Yes'										
		GROUP BY DEPARTMENT;										
8	No of	SELECT AGE_BAND, GENDER,	age_band	gende	er sum		No	of Empl	oyee By A	ge Group	p	Exact
		SUM(EMPLOYEE_COUNT) AS TOTAL_EMPLOYEE	character			-			Female •			
	Employee		25 - 34	Male		337						Match
	by Age	FROM HRDATA	25 - 34	Fema	le	217		337	***			
	Group	GROUP BY AGE_BAND, GENDER	35 - 44	Fema	le	196			309			
		ORDER BY AGE_BAND;	35 - 44	Male		309		217	196	132		
			45 - 54	Fema	le	113	Under 25				Over 55	
			45 - 54	Male		132	F#//A/250		CF age band	W 52 52	(40) (40)	
			Over 55	Male		44						
			Over 55	Fema	le	25						
			Under 25	Fema	le	37						
			Under 25	Male		60						

9	Education	SELECT EDUCATION_FEILD, COUNT(ATTRITION)	education		total_attrition		Education Feild wise Attrition	Exact
	Field wise	AS TOTAL_ATTRITION	character	varying (5	bigint		Life Sciences 89	Match
	Attrition	FROM HRDATA	Life Scier	nces	89		Medical 63	
	71011011	WHERE ATTRITION = 'Yes'	Medical		63		Marketing 35	
		GROUP BY EDUCATION_FEILD	Marketing	g	35		Technical D 32 Other 11	
		_	Technica	Degree	32		Human Res 7	
		ORDER BY TOTAL_ATTRITION DESC;	Other		11			
			Human R	esourc	7			
10	Attrition	SELECT AGE_BAND, GENDER,	age_band	gender	total_attrition	attrition	25 - 34 35 - 44	Exact
	Rate by	COUNT(ATTRITION) AS TOTAL_ATTRITION,	character var	•		text	(61.61%) (72.55%)	Match
	Gender	ROUND((CAST(COUNT(ATTRITION) AS	25 - 34	Female	43	18.14	112 51	
		NUMERIC)/(SELECT COUNT(ATTRITION) FROM	25 - 34	Male	69	29.11	(38.39%) 14 (27.45%)	
	for	HRDATA WHERE ATTRITION = 'Yes'))*100, 2) '	35 - 44	Female	14	5.91 %	45 - 54 Over 55	
	different	,, , , , , , , , , , , , , , , , , , , ,	35 - 44	Male	37	15.61	16 (72.73%)	
	Age	%' AS ATTRITION_PCT	45 - 54	Female	9	3.80 %	25 11	
	group	FROM HRDATA	45 - 54	Male	16	6.75 %		
	9. o a.b	WHERE ATTRITION = 'Yes'	Over 55	Female	3	1.27 %	(36%) (27.27%)	
		GROUP BY AGE_BAND, GENDER	Over 55	Male	8	3.38 %	Under 25	
		ORDER BY AGE_BAND, GENDER;	Under 25	Female	18	7.59 %		
							38	
			Under 25	Male	20	8.44 %	(47.37%)	

11	Job	SELECT *	job_role o	one o	two	three	four	Job Sati	isfiction Rating	Exact
	Satisfac-	FROM CROSSTAB(character varying (50)	numeric	numeric	numeric a	numeric	Job Role	1 2 3 4 Total	Match
	tion	'SELECT JOB_ROLE, JOB_SATISFICTION,	Healthcare Representative	26	1	9 43	43	Sales Executive Research Scientist	69 54 91 112 326 54 53 90 95 292	
		SUM(EMPLOYEE_COUNT)	Human Resources	10	1	6 13	13	Laboratory Technician Manufacturing Director	56 48 75 80 259 26 32 49 38 145	
	Rating		Laboratory Technician	56	4	8 75	80	Healthcare Representative	26 19 43 43 131 21 21 27 33 102	
		FROM HRDATA	Manager	21	2	1 27	33	Sales Representative	12 21 27 23 83	
		GROUP BY JOB_ROLE,	Manufacturing Director	26	3	2 49	38	Research Director Human Resources	15 16 27 22 80 10 16 13 13 52	
		JOB_SATISFICTION	Research Director	15	1	6 27	22			
		ORDER BY JOB_ROLE,	Research Scientist	54	5	3 90	95			
		JOB_SATISFICTION'	Sales Executive	69	5	4 91	112			
) AS CT(JOB_ROLE VARCHAR(50), ONE	Sales Representative	12	2	1 27	23			
		NUMERIC, TWO NUMERIC, THREE NUMERIC,								
		FOUR NUMERIC)								
		ORDER BY JOB_ROLE;								

Test Result:

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