

HR Analytics - SQL Test Document

Test No.	Sheet Name	Query	Test Result	QA Remark
1	KPI- Employee Count	SELECT SUM(employee_count) AS employee_Count FROM hrdata	Pass	Exact match
2	KPI- Attrition Count	SELECT COUNT(attrition) FROM hrdata WHERE attrition='Yes';	Pass	Exact match
3	KPI- Attrition Rate	SELECT ROUND (((SELECT COUNT(attrition) FROM hrdata WHERE attrition='Yes')/SUM(employee_count)) * 100,2) FROM hrdata;	Pass	Exact match
4	KPI- Active Employee	SELECT (SELECT SUM(employee_count) FROM hrdata) - COUNT(attrition) AS active_employee FROM hrdata WHERE attrition='Yes';	Pass	Exact match
5	KPI- Average Age	SELECT ROUND(AVG(age),0) FROM hrdata;	Pass	Exact match
6	Attrition by Gender	SELECT gender, COUNT(attrition) AS attrition_count FROM hrdata WHERE attrition='Yes' GROUP BY gender ORDER BY COUNT(attrition) DESC;	Pass	Exact match
7	Department wise Attrition	SELECT department, COUNT(attrition), ROUND((CAST (COUNT(attrition) AS numeric) / (SELECT COUNT(attrition) FROM hrdata WHERE attrition= 'Yes')) * 100, 2) AS pct FROM hrdata WHERE attrition='Yes' GROUP BY department ORDER BY COUNT(attrition) DESC;	Pass	Exact match
8	Number of Employee by Age Group	SELECT age, SUM(employee_count) AS employee_count FROM hrdata GROUP BY age ORDER BY age;	Pass	Exact match
9	Education Field wise Attrition	SELECT education_field, COUNT(attrition) AS attrition_count FROM hrdata WHERE attrition='Yes' GROUP BY education_field ORDER BY count(attrition) DESC;	Pass	Exact match

Test No.	Sheet Name	Query	Test Result	QA Remark
10	Attrition Rate by Gender for different Age Group	SELECT age_band, gender, COUNT(attrition) AS attrition, ROUND((cast(count(attrition) AS numeric) / (SELECT COUNT(attrition) FROM hrdata where attrition = 'Yes')) * 100,2) AS pct FROM hrdata WHERE attrition = 'Yes' GROUP BY age_band, gender ORDER BY age_band, gender DESC;	Pass	Exact match
11	Job Satisfaction Rating	CREATE EXTENSION IF NOT EXISTS tablefunc; SELECT *FROM crosstab('SELECT job_role, job_satisfaction, SUM(employee_count) FROM hrdata GROUP BY job_role, job_satisfaction ORDER BY job_role, job_satisfaction') AS ct(job_role varchar(50), one numeric, two numeric, three numeric, four numeric)ORDER BY job_role;	Pass	Exact match

Test Result:

Total Tests	11
Pass	11
Fail	0
Blocked	0
Not Executed	0