DATA VALIDATION TEST DOCUMENT with SQL

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| **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 SUM(employee\_count) - (select count(attrition) from hrdata where attrition='Yes') from hrdata; | 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 | No of Employee by Age Group | SELECT age\_band, gender, SUM(employee\_count) from hrdata  GROUP BY age\_band, gender  ORDER BY age\_band, gender desc | 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 |
| 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 desc; | Pass | Exact match |
| 11 | Job Satisfaction Rating | 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:**

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