**TEST DOCUMENT**

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| **Client Name** | ABC Pvt. Ltd. |
| **Report Name** | TalentFlow Validation Report |
| **Developer Name** | Priyansh Singhal |
| **Tester Name** | Priyansh Singhal |
| **Project Manager** | Priyansh Singhal |
| **Development Tool** | **Tableau Desktop** |

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| **Test No.** | **Test Query** | **Result** | **QA Remark** |
| 1 | SELECT \* FROM employeedata; | Pass | Exact match |
| 2 | SELECT SUM(employee\_count) FROM employeedata; | Pass | Exact match |
| 3 | SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes'; | Pass | Exact match |
| 4 | SELECT ((SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes')/SUM(employee\_count))\*100 FROM employeedata; | Pass | Exact match |
| 5 | SELECT SUM(active\_employee) FROM employeedata; | Pass | Exact match |
| 6 | SELECT ROUND(AVG(age)) FROM employeedata; | Pass | Exact match |
| 7 | SELECT SUM(employee\_count) FROM employeedata WHERE education='Associates Degree'; | Pass | Exact match |
| 8 | SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' WHERE education='High School'; | Pass | Exact match |
| 9 | SELECT ((SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education='Doctoral Degree')/SUM(employee\_count) )\*100 FROM employeedata WHERE education='Doctoral Degree'; | Pass | Exact match |
| 10 | SELECT SUM(active\_employee) FROM employeedata WHERE education LIKE 'Master%'; | Pass | Exact match |
| 11 | SELECT ROUND(AVG(age)) FROM employeedata WHERE education LIKE 'Bachelor%'; | Pass | Exact match |
| 12 | SELECT ROUND(AVG(age)) FROM employeedata WHERE education LIKE 'High%'; | Pass | Exact match |
| 13 | SELECT DISTINCT(education) FROM employeedata; | Pass | Exact match |
| 14 | SELECT SUM(employee\_count) FROM employeedata WHERE department = 'HR'; | Pass | Exact match |
| 15 | SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND department = 'Sales'; | Pass | Exact match |
| 16 | SELECT ((SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND department = 'R&D')/SUM(employee\_count) )\*100 FROM employeedata WHERE department = 'R&D'; | Pass | Exact match |
| 17 | SELECT SUM(active\_employee) FROM employeedata WHERE department = 'HR'; | Pass | Exact match |
| 18 | SELECT CEIL(AVG(age)) FROM employeedata WHERE department = 'R&D'; | Pass | Exact match |
| 19 | SELECT CEIL(AVG(age)) FROM employeedata WHERE department = 'HR'; | Pass | Exact match |
| 20 | SELECT SUM(employee\_count) FROM employeedata WHERE education\_field = 'Marketing'; | Pass | Exact match |
| 21 | SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Life Sciences'; | Pass | Exact match |
| 22 | SELECT ((SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Other')/SUM(employee\_count) )\*100 FROM employeedata WHERE education\_field = 'Other'; | Pass | Exact match |
| 23 | SELECT SUM(active\_employee) FROM employeedata WHERE education\_field = 'Medical'; | Pass | Exact match |
| 24 | SELECT ROUND(AVG(age)) FROM employeedata WHERE education\_field = 'Technical Degree'; | Pass | Exact match |
| 25 | SELECT SUM(active\_employee) FROM employeedata WHERE education\_field = 'Medical'; | Pass | Exact match |
| 26 | SELECT SUM(employee\_count) FROM employeedata WHERE education\_field = 'Marketing'; | Pass | Exact match |
| 27 | SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Medical' AND department = 'Sales' AND gender = 'Male'; | Pass | Exact match |
| 28 | SELECT ((SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Other' AND education = 'High School' AND gender = 'Female')/SUM(employee\_count))\*100 FROM employeedata WHERE education\_field = 'Other' AND education = 'High School' AND gender = 'Female'; | Pass | Exact match |
| 29 | SELECT SUM(active\_employee) FROM employeedata WHERE education\_field = 'Medical' AND department = 'R&D' AND education LIKE 'Bachelor%'; | Pass | Exact match |
| 30 | SELECT ROUND(AVG(age)) FROM employeedata WHERE education\_field = 'Technical Degree' AND education LIKE 'Master%' AND gender = 'Male'; | Pass | Exact match |
| 31 | SELECT gender, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' GROUP BY gender ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 32 | SELECT gender, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Medical' GROUP BY gender ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 33 | SELECT gender, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education LIKE 'Master%' GROUP BY gender ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 34 | SELECT gender, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND department = 'R&D' GROUP BY gender ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 35 | SELECT department, COUNT(attrition),ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' ))\*100,2) AS percentage FROM employeedata WHERE attrition = 'Yes' GROUP BY department ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 36 | SELECT department, COUNT(attrition),ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND gender = 'Female' ))\*100,2) AS percentage FROM employeedata WHERE attrition = 'Yes' AND gender = 'Female' GROUP BY department ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 37 | SELECT department, COUNT(attrition),ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education LIKE 'Bache%' ))\*100,2) AS percentage FROM employeedata WHERE attrition = 'Yes' AND education LIKE 'Bache%' GROUP BY department ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 38 | SELECT department, COUNT(attrition),ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Marketing' ))\*100,2) AS percentage FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Marketing' GROUP BY department ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 39 | SELECT department, COUNT(attrition),ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND department = 'HR' ))\*100,2) AS percentage FROM employeedata WHERE attrition = 'Yes' AND department = 'HR' GROUP BY department ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 40 | SELECT education\_field, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' GROUP BY education\_field ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 41 | SELECT education\_field, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND gender = 'Male' GROUP BY education\_field ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 42 | SELECT education\_field, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Medical' GROUP BY education\_field ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 43 | SELECT education\_field, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education LIKE 'Master%' GROUP BY education\_field ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 44 | SELECT education\_field, COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND department = 'HR' GROUP BY education\_field ORDER BY COUNT(attrition) DESC; | Pass | Exact match |
| 45 | SELECT age\_band,gender, COUNT(attrition),  ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND department = 'Sales'))\*100,2)  FROM employeedata WHERE attrition = 'Yes' AND department = 'Sales' GROUP BY age\_band,gender ORDER BY age\_band,gender DESC; | Pass | Exact match |
| 46 | SELECT age\_band,gender, COUNT(attrition),  ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education LIKE 'High%'))\*100,2)  FROM employeedata WHERE attrition = 'Yes' AND education LIKE 'High%' GROUP BY age\_band,gender ORDER BY age\_band,gender DESC; | Pass | Exact match |
| 47 | SELECT age\_band,gender, COUNT(attrition),  ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Life Sciences'))\*100,2)  FROM employeedata WHERE attrition = 'Yes' AND education\_field = 'Life Sciences' GROUP BY age\_band,gender ORDER BY age\_band,gender DESC; | Pass | Exact match |
| 48 | SELECT age\_band,gender, COUNT(attrition),  ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND gender = 'Female'))\*100,2)  FROM employeedata WHERE attrition = 'Yes' AND gender = 'Female' GROUP BY age\_band,gender ORDER BY age\_band,gender DESC; | Pass | Exact match |
| 49 | SELECT age\_band,gender, COUNT(attrition),  ROUND((CAST(COUNT(attrition) AS numeric)/(SELECT COUNT(attrition) FROM employeedata WHERE attrition = 'Yes' AND gender = 'Female'))\*100,2)  FROM employeedata WHERE attrition = 'Yes' AND gender = 'Female' GROUP BY age\_band,gender ORDER BY age\_band,gender DESC; | Pass | Exact match |
| 50 | CREATE EXTENSION IF NOT EXISTS tablefunc;  SELECT \*  FROM crosstab(  'SELECT job\_role, job\_satisfaction, sum(employee\_count)  FROM employeedata  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 |

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| **Total Tests** | 50 |
| **Pass** | 50 |
| **Fail** | 00 |
| **Blocked** | 00 |
| **Not Executed** | 00 |

Quality Assurance and Validation Tests Results: