

## SQL PORTFOLIO PROJECT

### TESTING EXCEL REPORT IN MYSQL

#### **Employee Count:**

```
SELECT SUM(employee_count) as Employee_Count  
FROM hrdata;
```

	Employee_Count
▶	1470

#### **Attrition Count:**

```
SELECT COUNT(attrition)  
FROM hrdata  
WHERE attrition = 'Yes';
```

	COUNT(attrition)
▶	237

#### **Attrition Rate:**

```
SELECT  
ROUND(((SELECT COUNT(attrition) FROM hrdata WHERE attrition =  
'Yes')/SUM(employee_count)) * 100, 2) AS Attrition_Rate  
FROM hrdata;
```

	Attrition_Rate
▶	16.12

#### **Active Employees:**

```
SELECT SUM(employee_count) - (SELECT COUNT(attrition) FROM hrdata WHERE attrition  
= 'Yes') AS Active_Employees  
FROM hrdata;
```

	Active_Employees
▶	1233

#### **Average Age:**

	Avg_age
▶	37

### **Attrition by Gender:**

```
SELECT gender, COUNT(attrition) AS Attrition_Count  
FROM hrdata  
WHERE attrition='Yes'  
GROUP BY gender  
ORDER BY COUNT(attrition) DESC;
```

	gender	Attrition_Count
▶	Male	150
	Female	87

### **Department Wise Attrition:**

```
SELECT department,  
COUNT(attrition) AS attrition_count, ROUND((COUNT(attrition) * 100.0) / (SELECT  
COUNT(*) FROM hrdata WHERE attrition = 'Yes'), 2) AS pct  
FROM hrdata  
WHERE attrition = 'Yes'  
GROUP BY department  
ORDER BY COUNT(attrition) DESC;
```

	department	attrition_count	pct
▶	R&D	133	56.12
	Sales	92	38.82
	HR	12	5.06

### **No of Employees by Age Group:**

```
SELECT AGE, SUM(employee_count) AS employee_count  
FROM hrdata  
GROUP BY age  
ORDER BY age;
```

AGE	employee_count
18	8
19	9
20	11
21	13
22	16
23	14
24	26
25	26
26	39
27	48
28	48
29	68
30	60
31	69
32	61

#### **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;
```

	education_field	attrition_count
▶	Life Sciences	89
	Medical	63
	Marketing	35
	Technical Degree	32
	Other	11
	Human Resources	7

#### **Attrition Rate by Gender for Different Age Groups:**

```
SELECT age_band,
gender,
COUNT(attrition) AS attrition, ROUND((COUNT(attrition) * 100.0) / (SELECT COUNT(*)
FROM hrdata WHERE attrition = 'Yes'), 2) AS pct
FROM hrdata
WHERE attrition = 'Yes'
GROUP BY age_band, gender
ORDER BY age_band, gender DESC;
```

age_band	gender	attrition	pct
25 - 34	Male	69	29.11
25 - 34	Female	43	18.14
35 - 44	Male	37	15.61
35 - 44	Female	14	5.91
45 - 54	Male	16	6.75
45 - 54	Female	9	3.80
Over 55	Male	8	3.38
Over 55	Female	3	1.27
Under 25	Male	20	8.44
Under 25	Female	18	7.59

**Job Satisfaction Rating:**

```

SELECT
job_role,
SUM(CASE WHEN job_satisfaction = 1 THEN employee_count ELSE 0 END) AS one,
SUM(CASE WHEN job_satisfaction = 2 THEN employee_count ELSE 0 END) AS two,
SUM(CASE WHEN job_satisfaction = 3 THEN employee_count ELSE 0 END) AS three,
SUM(CASE WHEN job_satisfaction = 4 THEN employee_count ELSE 0 END) AS four
FROM hrdata
GROUP BY job_role
ORDER BY job_role;

```

job_role	one	two	three	four
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