**DATA ANALYST PORTFOLIO SQL PROJECT**

**TESTING TABLEAU REPORT IN SQL**

**Create Table**

Table data import wizard

**Employee Count:**

SELECT sum(employee\_count) as employee\_count

FROM hr\_data;

A screenshot of a computer

Description automatically generated

**Attrition Count:**

SELECT count(attrition) as attrition\_count

FROM hr\_data

WHERE attrition= 'Yes';

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Description automatically generated

**Attrition Rate:**

SELECT round((SELECT count(attrition) from hr\_data where attrition= 'Yes')\*100 / sum(employee\_count),2) as attrition\_rate

FROM hr\_data;

**A screenshot of a cell phone

Description automatically generated**

**Active Employee:**

SELECT sum(employee\_count)-(SELECT count(attrition) from hr\_data where attrition= 'Yes') as active\_employees

FROM hr\_data;

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Description automatically generated

**Average Age:**

SELECT round(avg(age),0) as avg\_age

FROM hr\_data;

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Description automatically generated

**Attrition by Gender**

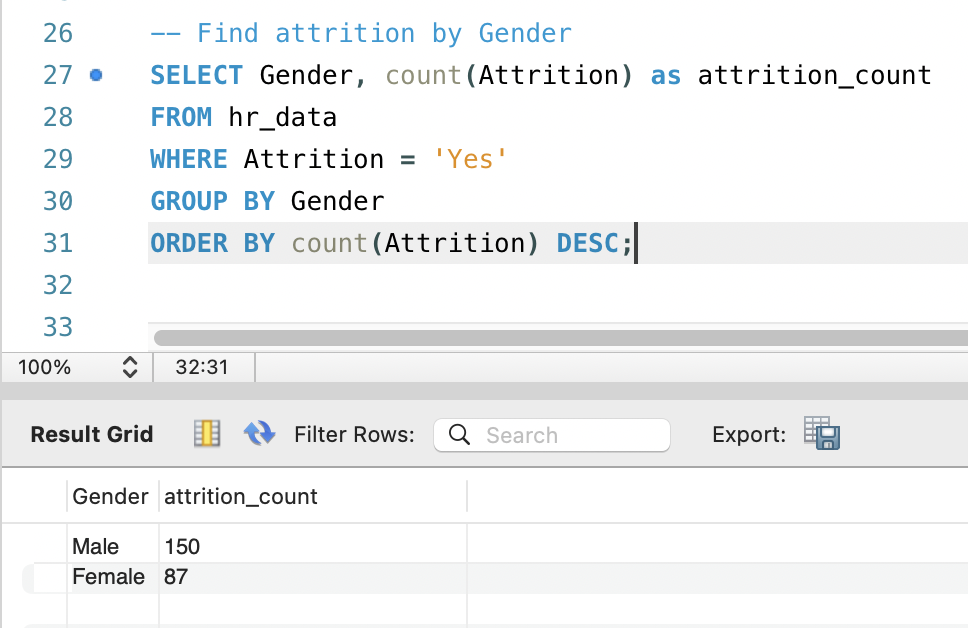
SELECT Gender, count(Attrition) as attrition\_count

FROM hr\_data

WHERE Attrition = 'Yes'

GROUP BY Gender

ORDER BY count(Attrition) DESC;

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**Department wise Attrition:**

SELECT Department, count(Attrition) as attrition\_count,

round(count(attrition)\*100/

(Select count(attrition)

from hr\_data

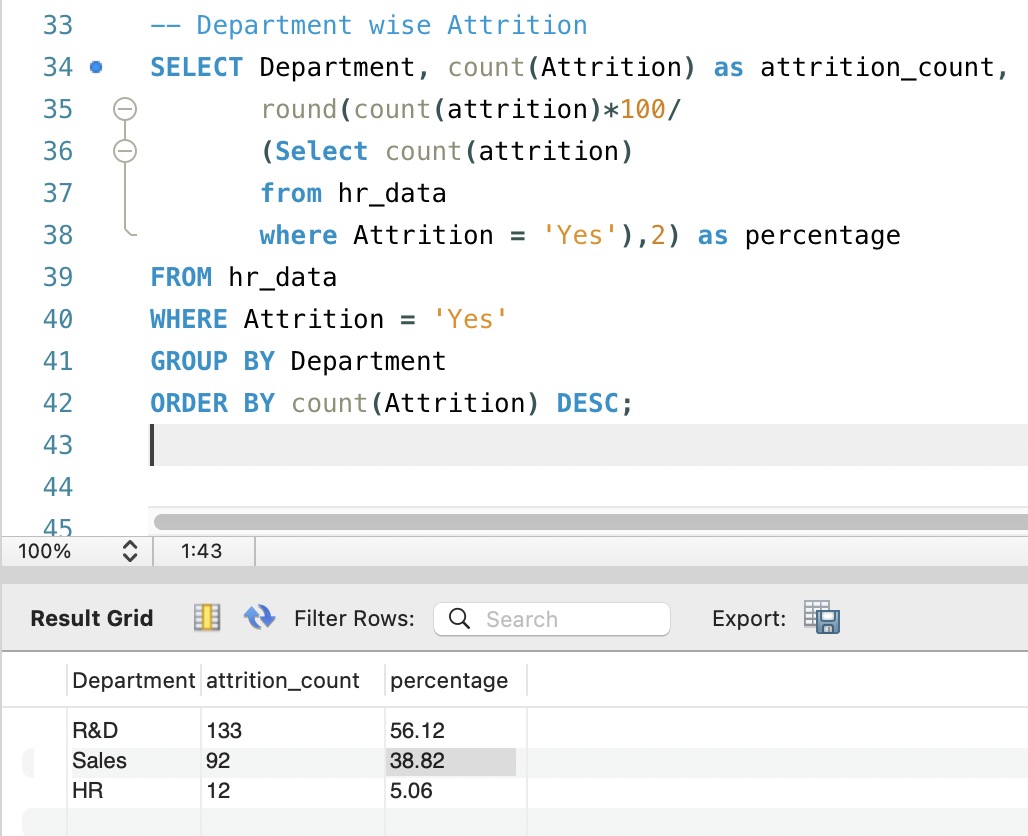
where Attrition = 'Yes'),2) as percentage

FROM hr\_data

WHERE Attrition = 'Yes'

GROUP BY Department

ORDER BY count(Attrition) DESC;

****

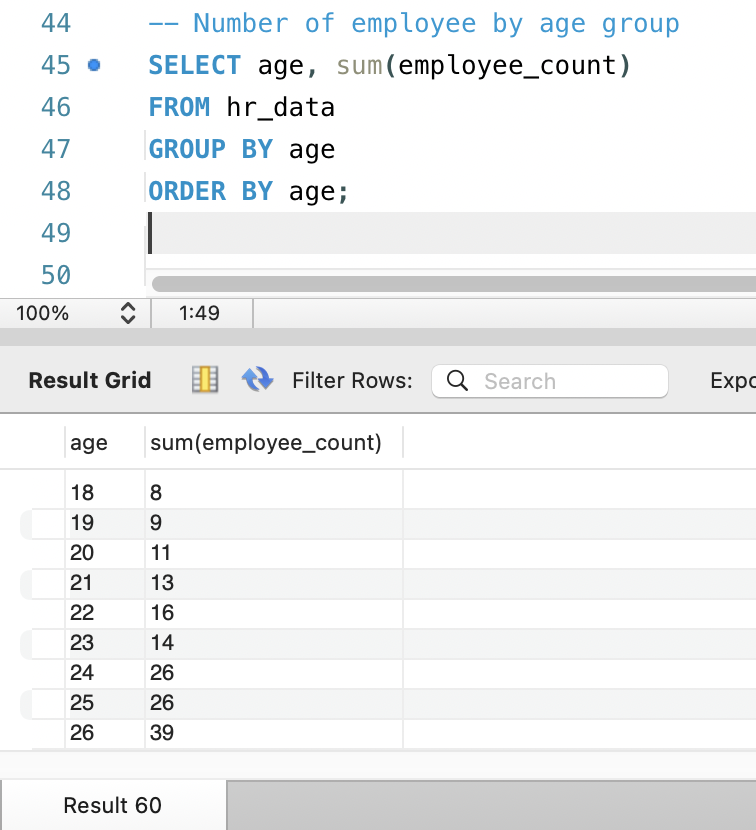
**No of Employee by Age Group**

SELECT age, sum(employee\_count)

FROM hr\_data

GROUP BY age

ORDER BY age;



**Education Field wise Attrition:**

SELECT Education\_field, count(attrition) as attrition\_count

FROM hr\_data

WHERE attrition = 'Yes'

GROUP BY Education\_field

ORDER BY attrition\_count;

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Description automatically generated

**Attrition Rate by Gender for different Age Group**

SELECT age\_band,Gender, Count(attrition) as attrition\_count, round(count(attrition)\*100/ (SELECT count(attrition) from hr\_data where attrition= 'Yes'),2) as '%'

FROM hr\_data

WHERE attrition = 'Yes'

GROUP BY Gender, age\_band

ORDER BY age\_band,Gender;

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Description automatically generated

**Job Satisfaction Rating**

-Run this query first to activate the cosstab() function in postgres

CREATE EXTENSION IF NOT EXISTS tablefunc;

-Then run this to get o/p-

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;