**DATA ANALYST SQL PROJECT ( HR DATA SET)**

**Create Table**

create table hrdata

(

emp\_no int8 PRIMARY KEY,

gender varchar(50) NOT NULL,

marital\_satus varchar(50),

age\_band varchar(50),

age int8,

department varchar(50),

education varchar(50),

education\_field varchar(50),

job\_role varchar(50),

business\_travel varchar(50),

employee\_count int8,

attrition varchar(50),

attrition\_label varchar(50),

job\_satisfaction int8,

active\_employee int8

)

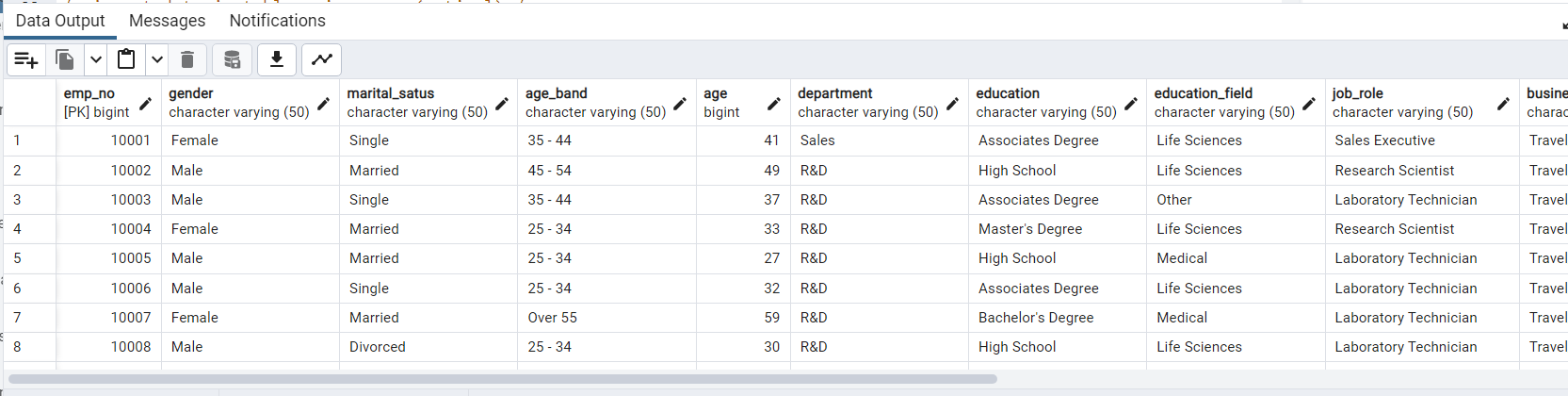
**Import Data in Table Using Query**

COPY hrdata FROM 'C:\Users\sachi\OneDrive\Desktop\SQL projects\hrdata.csv' DELIMITER ','

CSV HEARDER;

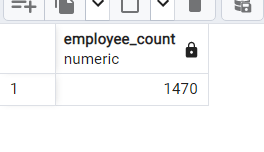
**Show Data in table**

Select \* from hrdata



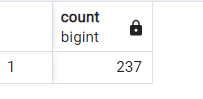
**Employee Count**

select sum(employee\_count) as employee\_count from hrdata



**Attrition Count**

select count(attrition) from hrdata where attrition = 'Yes'

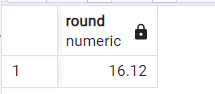


**Attrition Rate**

select round(((select count(attrition) from hrdata where attrition = 'Yes')

/sum(employee\_count))\*100,2)

from hrdata



**Active Employee**

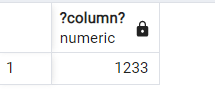
select sum(employee\_count)-(select count(attrition) from hrdata where attrition ='Yes')

from hrdata

***or***

select (select sum(employee\_count) from hrdata) - count(attrition) as active\_employee from hrdata

where attrition='Yes';



**Average Age**

select round(avg(age),0) as age from hrdata

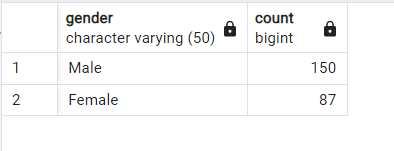


**Attrition By Gender**

select gender , count(attrition) from hrdata where attrition = 'Yes'

group by gender

order by count(attrition) DESC



**Department wise Attrition**

select department , count(attrition),

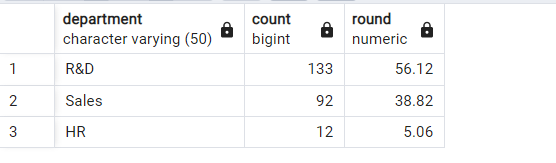
round((cast(count(attrition) as Numeric)/(select count(attrition) from hrdata where attrition = 'Yes'))\*100,2)

from hrdata

where attrition = 'Yes'

group by department

order by count(attrition) DESC

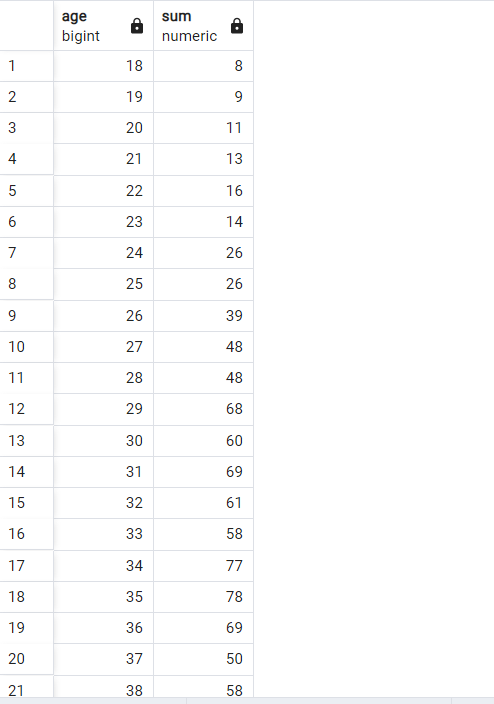


**No of Employee by age group**

select age , sum(employee\_count) from hrdata

group by age

order by age



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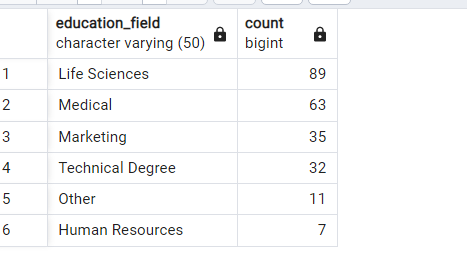
**Education Field wise Attrition**

select education\_field , count(attrition) from hrdata

where attrition = 'Yes'

group by education\_field

order by count(attrition) desc



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

select age\_band , gender , count(attrition),

round((cast(count(attrition) as numeric )/

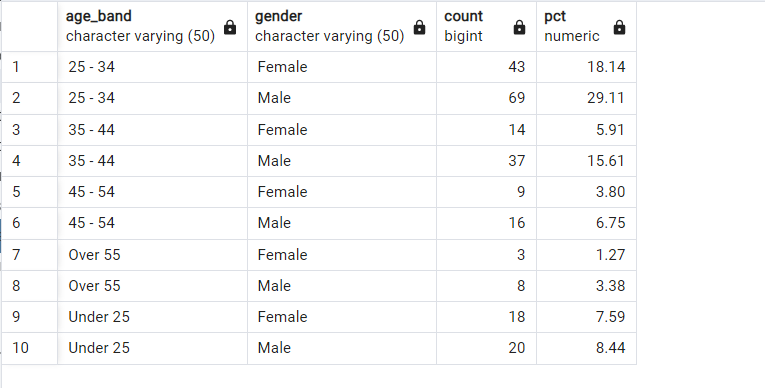
(select count(attrition) from hrdata where attrition = 'Yes'))\*100,2) as pct

from hrdata

where attrition = 'Yes'

group by age\_band , gender

order by age\_band , gender



**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;

