**DATA ANALYST PORTFOLIO SQL PROJECT**

**Create Table**

create table hrdata

(

emp\_no int8 PRIMARY KEY,

gender varchar (50) NOT NULL,

marital status 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 'D:\hrdata.csv' DELIMITER ',' CSV HEADER;

**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';

OR

Select count (active employee)

From hrdata

Where active employee = 1;

**Average Age:**

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

**Attrition by Gender**

select gender, count(attrition) as attrition count 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) as pct from hrdata

where attrition='Yes'

group by department

order by count(attrition) desc;

**No of Employee by Age Group**

SELECT age, sum (employee count) AS employee count FROM hrdata

GROUP BY age

order by age;

**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;

**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, gender desc;