SQL QUERIES USED FOR TESTING POWER BI REPORT

CREATE TABLE:

```
CREATE TABLE EmployeeData
      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),
       iob 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:

COPY EmployeeData FROM 'path/to/your/csv_file.csv' DELIMITER',' CSV HEADER;

SHOW ALL THE DATA OF THE TABLE:

SELECT* FROM EmployeeData;

KPI's TESTING

EMPLOYEE COUNT:

select sum(employee_count) as Employee_Count from EmployeeData;

EMPLOYEE COUNT BY EDUCATION:

select sum(employee_count) as Employee_Count from EmployeeData where education = 'Bachelor''s Degree';

ATTRITION COUNT:

select count(attrition) from EmployeeData where attrition='Yes';

ATTRITION COUNT BY DEPARTMENT:

select count(attrition) from EmployeeData where attrition='Yes' and department='Sales';

ATTRITION RATE:

select

round (((select count(attrition) from EmployeeData where attrition='Yes')/sum(employee_count)) * 100,2) from EmployeeData;

ACTIVE EMPLOYEE:

select sum(employee_count) - (select count(attrition) from EmployeeData where attrition='Yes') from EmployeeData;

MALE ACTIVE EMPLOYEE:

 $select \ (sum(employee_count) - (select \ count(attrition) \ from \ EmployeeData \ where \ attrition='Yes' \ and \ gender='Male')) \ as \ active_employee \ from \ EmployeeData \ where \ gender='Male' \ ;$

AVERAGE AGE:

Select round(avg(age),o) from EmployeeData;

CHART'S TESTING:

ATTRITION BY GENDER:

select gender, count(attrition) as attrition_count from EmployeeData 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 EmployeeData where attrition= 'Yes')) * 100, 2) as percent from EmployeeData where attrition='Yes' group by department order by count(attrition) desc;

NO. OF EMPLOYEES BY AGE GROUP:

SELECT age, sum(employee_count) AS employee_count FROM EmployeeData GROUP BY age order by age;

EDUCATION STREAM WISE ATTRITION:

select education_field, count(attrition) as attrition_count from EmployeeData 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 EmployeeData where
attrition = 'Yes')) * 100,2) as percent
from EmployeeData
where attrition = 'Yes'
group by age_band, gender
order by age_band, gender desc;

JOB SATISFACTION RATING:

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;