**DATA ANALYST PORTFOLIO SQL PROJECT**

**TESTING POWER BI REPORTS IN MYSQL WORKBENCH**

**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 "C:\Users\GBHAR\OneDrive\Desktop\Others\Projects\SQL\HR\_Analytics\hrdata.csv" DELIMITER ',' CSV HEADER;

**Employee Count:**

select count(employee\_count) from hrdata

-- where education= 'High School';

-- where department = 'R&D';

where education\_field = 'medical';

**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 count(active\_employee) from hrdata

where active\_employee = 1;

**Average Age:**

select round(avg(age)) 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) as Attrition\_Count,

round(count(attrition)/(select count(attrition) from hrdata where attrition = 'yes')\*100,2) as Attrition\_Percentage

from hrdata

where attrition = 'yes'

group by department

order by count(attrition) desc;

**No of Employee by Age Group**

select age\_band, gender, sum(employee\_count) from hrdata

group by age\_band, gender

order by age\_band, gender;

**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 AttritionCount,

round(count(attrition)/(select count(attrition) from hrdata h2 where h2.age\_band = h1.age\_band and attrition = 'yes')\*100,2) as Percentage\_AttritionCount

from hrdata h1

where attrition = 'yes'

group by age\_band, gender

order by age\_band, gender;

**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;