# **HUMAN RESOURCES**

# **SQL Queries**

#### **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**

## **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) 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;

## **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;
```