-- Employe Count

select sum(employee\_count) from hrdata;

-- Employe Count filtered = High School

select sum(employee\_count) from hrdata

where education = 'High School';

-- Employe Count filtered = Associates Degree

select sum(employee\_count) from hrdata

where education = 'Associates Degree';

-- Employe Count filtered = Bachelor's Degree

select sum(employee\_count) from hrdata

where education = 'Bachelor''s Degree';

-- Employe Count filtered = Doctoral Degree

select sum(employee\_count) from hrdata

where education = 'Doctoral Degree';

-- Employe Count filtered = Master's Degree

select sum(employee\_count) from hrdata

where education = 'Master''s Degree';

--Employe Count Filtered by Department

select sum(employee\_count) from hrdata

--where education = 'High School'

where department = 'R&D';

--Employe Count Filtered by Department

select sum(employee\_count) from hrdata

--where education = 'High School'

where department = 'HR';

--Employe Count Filtered by Department

select sum(employee\_count) from hrdata

--where education = 'High School'

where department = 'Sales';

--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;

--Active Employee

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;

--Attition Rate by Gender for differente 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;

--crosstab function create

CREATE EXTENSION IF NOT EXISTS tablefunc;

--Job Statisfaction Rating

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;

--Employee Count filtered Education field

select sum(employee\_count) from hrdata

--where education = 'High School'

--where department = 'R&D';

where education\_field = 'Medical';

select sum(employee\_count) from hrdata

--where education = 'High School'

--where department = 'R&D';

where education\_field = 'Life Sciences';

select sum(employee\_count) from hrdata

--where education = 'High School'

--where department = 'R&D';

where education\_field = 'Marketing';

select sum(employee\_count) from hrdata

--where education = 'High School'

--where department = 'R&D';

where education\_field = 'Technical Degree';

select sum(employee\_count) from hrdata

--where education = 'High School'

--where department = 'R&D';

where education\_field = 'Other';

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

--where education = 'High School'

--where department = 'R&D';

where education\_field = 'Human Resources';